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(54) **GAMING DEVICE AND METHOD FOR PROVIDING PLAYER SELECTION OF MODIFIERS TO GAME COMPONENTS**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(56) **References Cited**

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4,618,150 A 10/1986 Kimura
4,624,459 A 11/1986 Kaufman
4,695,053 A 9/1987 Vazquez, Jr. et al.

(Continued)

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U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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EP 874337 A1 10/1998
EP 945837 A2 9/1999

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A63F 13/00 (2014.01)

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G06F 19/00 (2011.01)

(Continued)

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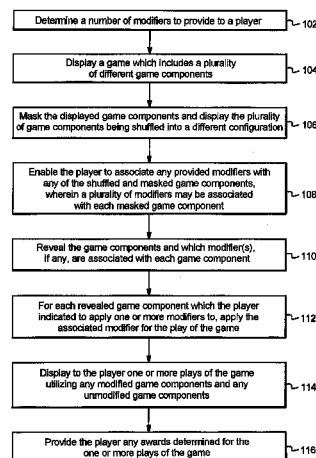
ABSTRACT

In one embodiment, the gaming device and method disclosed herein provides a player one or more modifiers to apply to different components or characteristics of a game. In one such embodiment, the gaming device enables a player to selectively apply or associate a plurality of modifiers to a single game component or apply the plurality of modifiers across the plurality of game components. For each game component with at least one applied modifier, the gaming device disclosed herein modifies said game component based on each applied modifier. The gaming device generates any awards based on any modified game components and any unmodified game components and provides any generated awards to the player.

(52) **U.S. Cl.**

CPC *G07F 17/326* (2013.01); *G07F 17/3211*

32 Claims, 12 Drawing Sheets



(51)	Int. Cl. G07F 17/32 G07F 17/34	(2006.01) (2006.01)	6,443,452 B1	9/2002	Brune	
			6,561,904 B2	5/2003	Locke et al.	
			6,569,015 B1	5/2003	Baerlocher et al.	
			6,575,830 B2	6/2003	Baerlocher et al.	
(56)	References Cited	U.S. PATENT DOCUMENTS	6,599,185 B1	7/2003	Kaminkow et al.	
			6,602,137 B2	8/2003	Kaminkow et al.	
			6,641,477 B1	11/2003	Dietz, II	
			6,726,525 B1	4/2004	Kato et al.	
			6,726,565 B2 *	4/2004	Hughs-Baird	G07F 17/32 273/138.2
	5,046,737 A	9/1991 Fienberg	6,769,983 B2	8/2004	Slomiany	
	5,205,555 A	4/1993 Hamano	6,817,944 B2	11/2004	Kaminkow et al.	
	5,294,120 A	3/1994 Schultz	6,899,620 B2	5/2005	Kaminkow et al.	
	5,342,047 A	8/1994 Heidel et al.	6,910,965 B2	6/2005	Downes	
	5,449,173 A	9/1995 Thomas et al.	6,913,532 B2	7/2005	Baerlocher et al.	
	5,511,781 A	4/1996 Wood et al.	6,939,224 B2	9/2005	Palmer et al.	
	5,536,016 A	7/1996 Thompson	6,955,600 B2	10/2005	Glavich et al.	
	5,762,552 A	6/1998 Vuong et al.	6,971,954 B2	12/2005	Randall et al.	
	5,769,716 A	6/1998 Saffari et al.	6,971,955 B2	12/2005	Baerlocher et al.	
	5,823,873 A	10/1998 Moody	6,979,263 B2	12/2005	Baerlocher et al.	
	5,823,874 A	10/1998 Adams	7,029,395 B1	4/2006	Baerlocher	
	5,833,537 A	11/1998 Barrie	7,040,984 B2	5/2006	Mead	
	5,833,538 A	11/1998 Weiss	7,066,466 B1	6/2006	Stavinsky et al.	
	5,848,932 A	12/1998 Adams	7,066,814 B2	6/2006	Glavich et al.	
	5,873,781 A	2/1999 Keane	7,094,148 B2	8/2006	Baerlocher et al.	
	5,882,261 A	3/1999 Adams	7,121,942 B2	10/2006	Baerlocher	
	5,927,714 A	7/1999 Kaplan	7,160,188 B2	1/2007	Kaminkow et al.	
	5,951,397 A	9/1999 Dickinson	7,172,506 B2	2/2007	Baerlocher et al.	
	5,967,894 A	10/1999 Kinoshita et al.	7,235,011 B2	6/2007	Randall et al.	
	5,976,016 A	11/1999 Moody et al.	7,247,092 B2	7/2007	Jarvis et al.	
	5,984,781 A	11/1999 Sunaga	7,258,611 B2	8/2007	Bigelow, Jr. et al.	
	6,004,207 A	12/1999 Wilson, Jr. et al.	7,300,348 B2	11/2007	Kaminkow et al.	
	6,015,346 A	1/2000 Bennett	7,306,518 B2	12/2007	Hughs-Baird et al.	
	6,033,307 A	3/2000 Vancura	2002/0187827 A1	12/2002	Blankstein	
	6,056,642 A	5/2000 Bennett	2003/0013514 A1	1/2003	Cregan et al.	
	6,062,980 A	5/2000 Luciano	2003/0036422 A1	2/2003	Baerlocher et al.	
	6,089,976 A	7/2000 Schneider et al.	2003/0036424 A1	2/2003	Baerlocher	
	6,089,977 A	7/2000 Bennett	2003/0060266 A1	3/2003	Baerlocher	
	6,089,978 A	7/2000 Adams	2003/0162584 A1	8/2003	Hughs-Baird et al.	
	6,102,798 A	8/2000 Bennett	2003/0181233 A1	9/2003	Baerlocher et al.	
	6,120,031 A	9/2000 Adams	2003/0216162 A1 *	11/2003	Vancura	G07F 17/32 463/10
	6,120,378 A	9/2000 Moody et al.	2003/0216167 A1	11/2003	Gauselmann	
	6,126,542 A	10/2000 Fier	2004/0038724 A1	2/2004	Asdale	
	6,142,874 A	11/2000 Kodachi et al.	2004/0195773 A1	10/2004	Masci et al.	
	6,155,925 A	12/2000 Giobbi et al.	2004/0242316 A1	12/2004	Oles et al.	
	6,159,097 A	12/2000 Gura	2005/0054416 A1	3/2005	Hostetler et al.	
	6,159,098 A	12/2000 Slomiany et al.	2005/0059461 A1	3/2005	Ching et al.	
	6,164,652 A	12/2000 Lauretta et al.	2005/0096123 A1	5/2005	Cregan et al.	
	6,168,523 B1	1/2001 Piechowiak et al.	2006/0025196 A1	2/2006	Webb et al.	
	6,174,235 B1	1/2001 Walker et al.	2006/0063582 A1	3/2006	Baerlocher et al.	
	6,186,894 B1	2/2001 Mayeroff	2006/0084486 A1	4/2006	Belger et al.	
	6,190,254 B1	2/2001 Bennett	2006/0111164 A1	5/2006	Hornik et al.	
	6,190,255 B1	2/2001 Thomas et al.	2006/0246977 A1	11/2006	Cannon	
	6,231,442 B1	5/2001 Mayeroff	2007/0105619 A1	5/2007	Kniestadt et al.	
	6,231,445 B1	5/2001 Acres	2007/0184891 A1	8/2007	Thomas	
	6,234,897 B1	5/2001 Frohm et al.	2008/0045341 A1	2/2008	Englman	
	6,261,177 B1	7/2001 Bennett	2008/0139285 A1	6/2008	Zimmerman	
	6,299,165 B1	10/2001 Nagano				
	6,302,790 B1	10/2001 Brossard				
	6,309,300 B1	10/2001 Glavich				
	6,311,976 B1	11/2001 Yoseloff et al.				
	6,312,334 B1	11/2001 Yoseloff				
	6,315,664 B1	11/2001 Baerlocher et al.				
	6,319,124 B1	11/2001 Baerlocher et al.				
	6,328,649 B1	12/2001 Randall et al.				
	6,336,860 B1	1/2002 Webb				
	6,346,043 B1	2/2002 Colin et al.				
	6,386,975 B1	5/2002 Peterson				
	6,394,902 B1	5/2002 Glavich et al.				
	6,398,218 B1	6/2002 Vancura				
	6,413,161 B1	7/2002 Baerlocher et al.				
			FOREIGN PATENT DOCUMENTS			
			EP	984409 A2	3/2000	
			GB	2086631 A	5/1982	
			GB	2183882 A	6/1987	
			GB	2222712 A	3/1990	
			GB	2356280 A	5/2001	
			WO	WO 01/52956	7/2001	

* cited by examiner

FIG. 1A

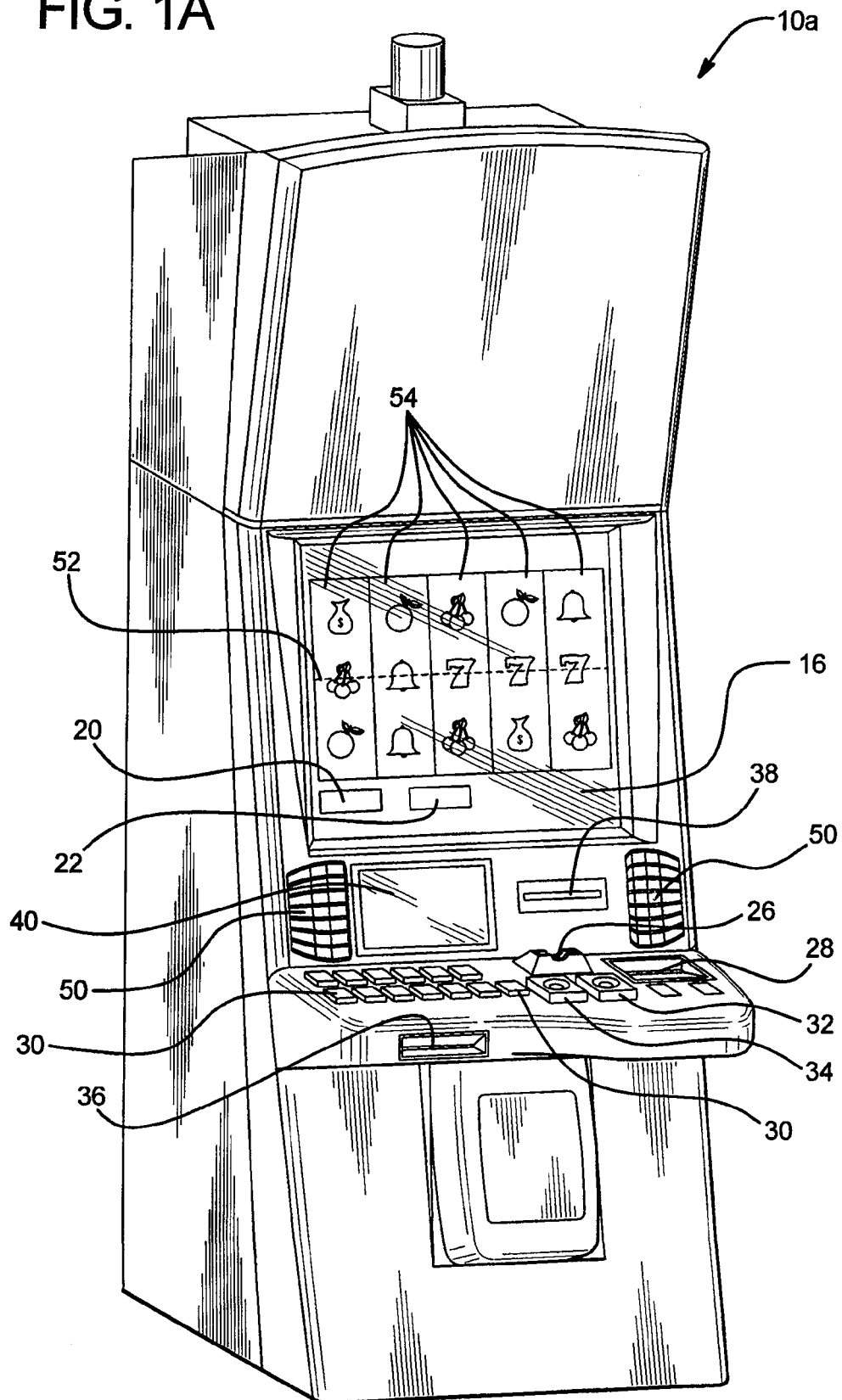


FIG. 1B

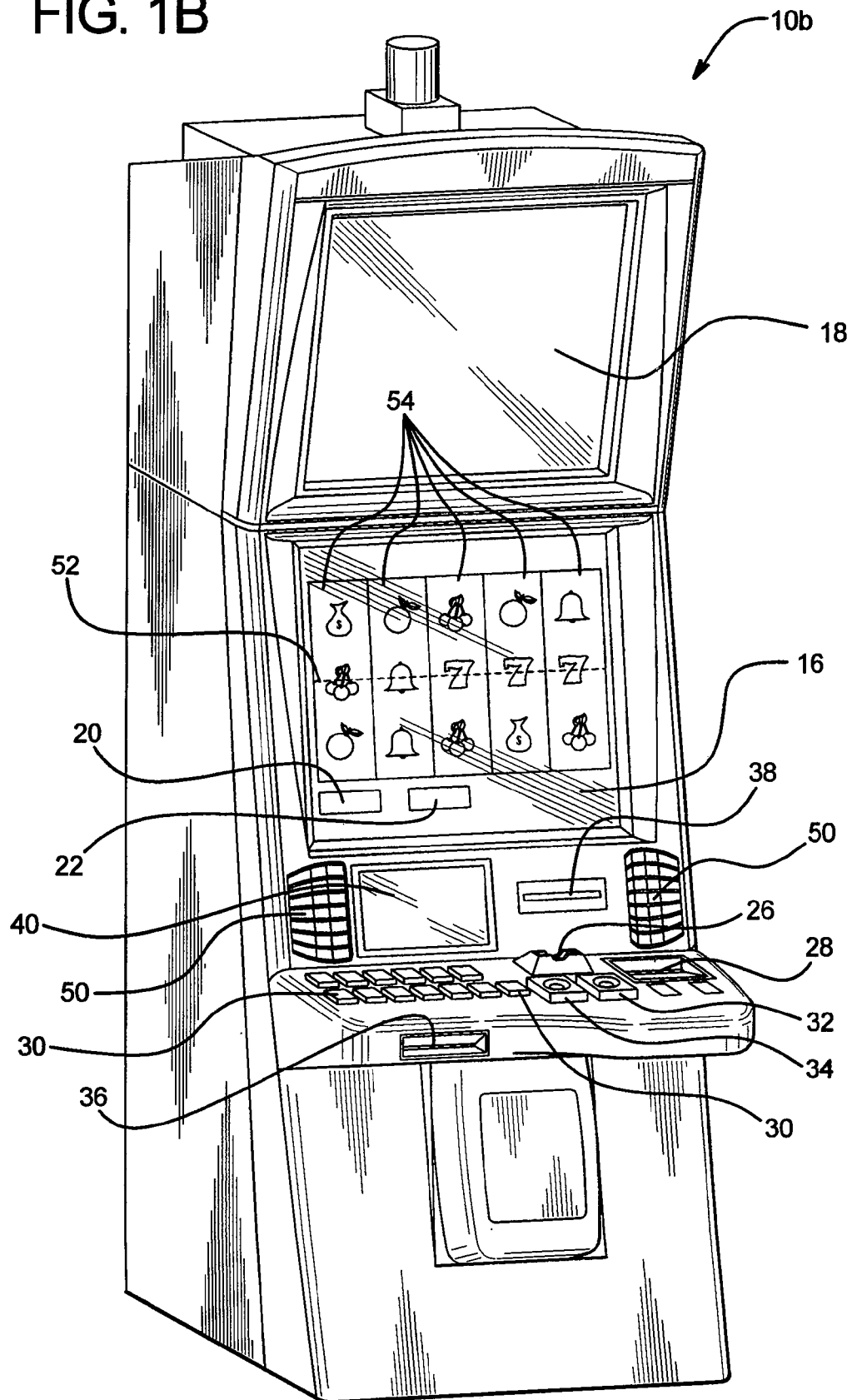


FIG. 2A

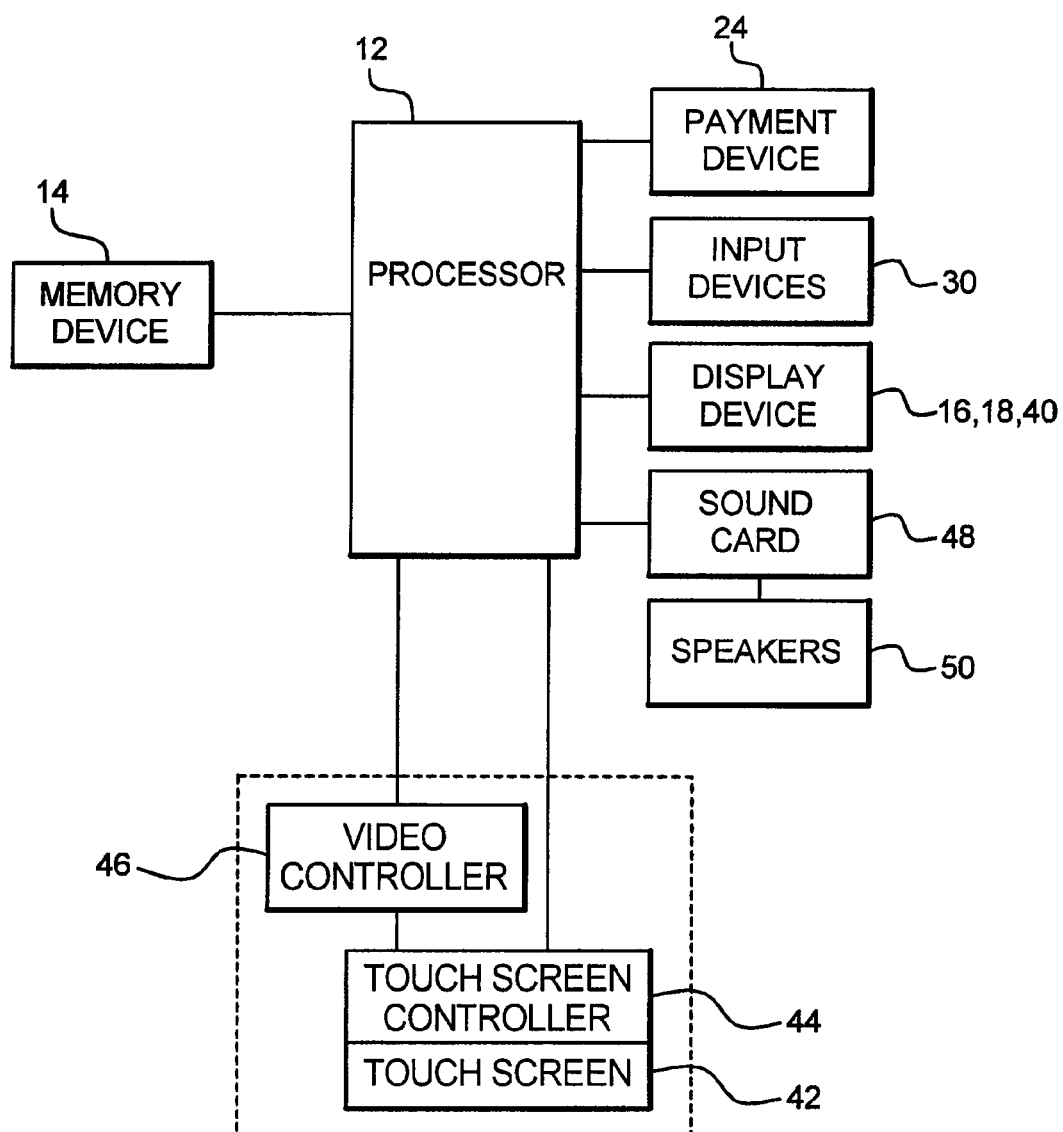


FIG. 2B

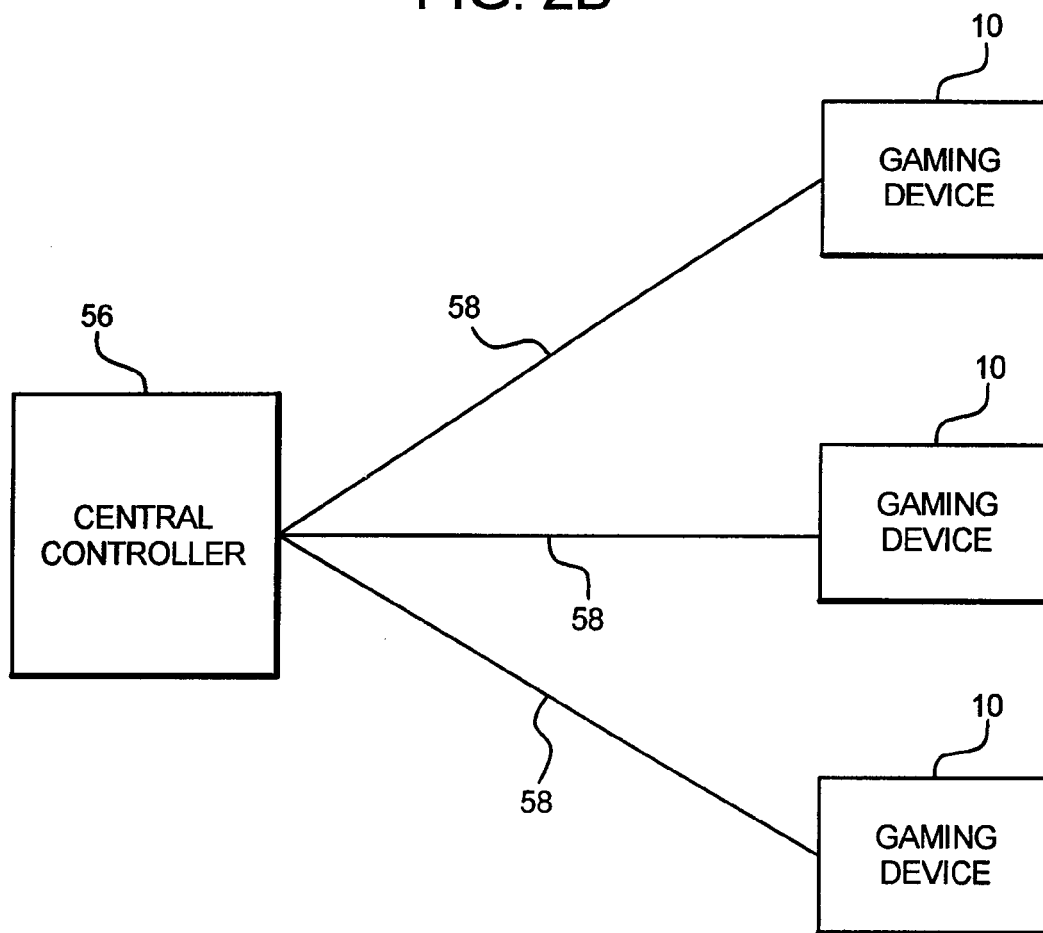


FIG. 3

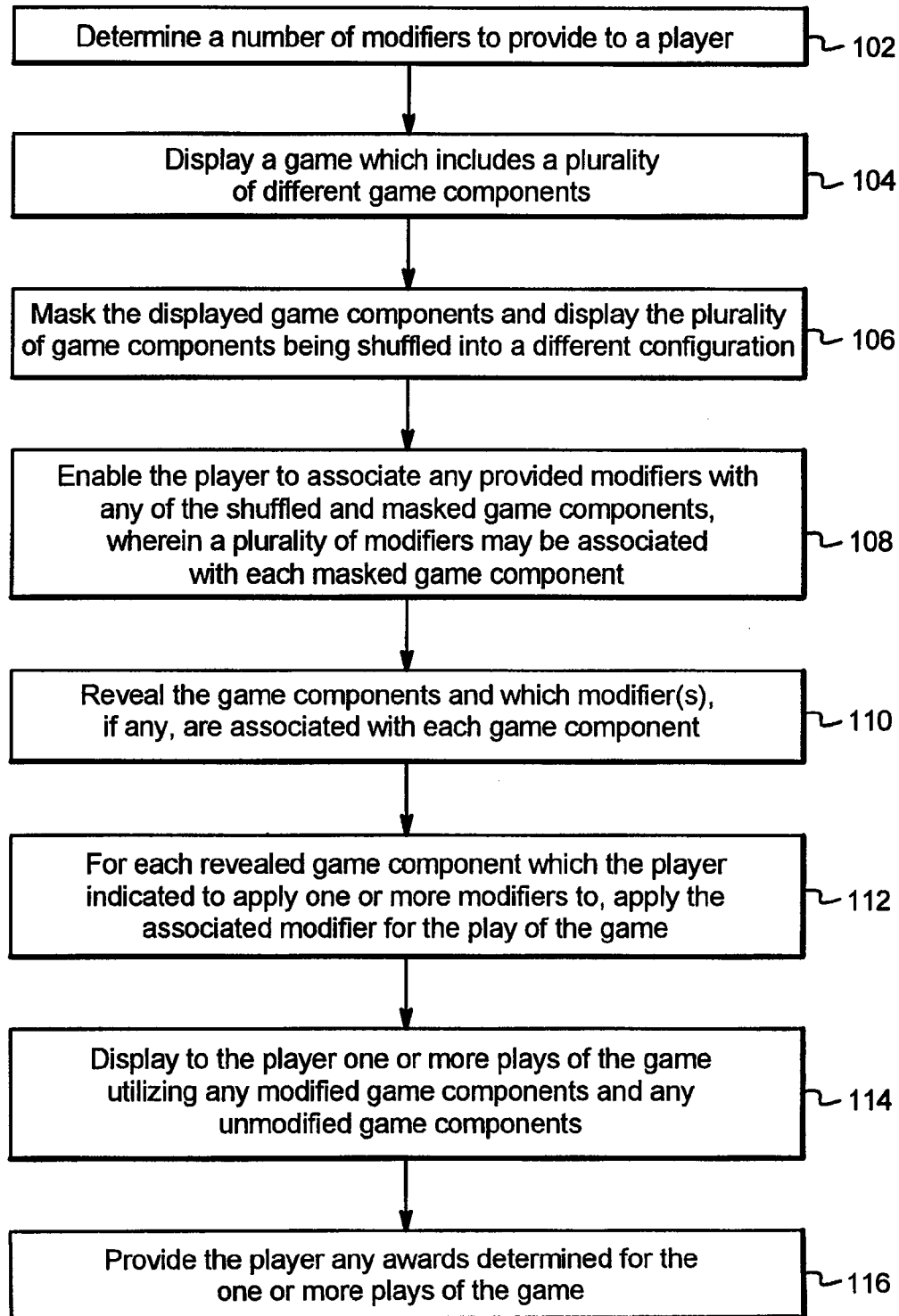


FIG. 4A

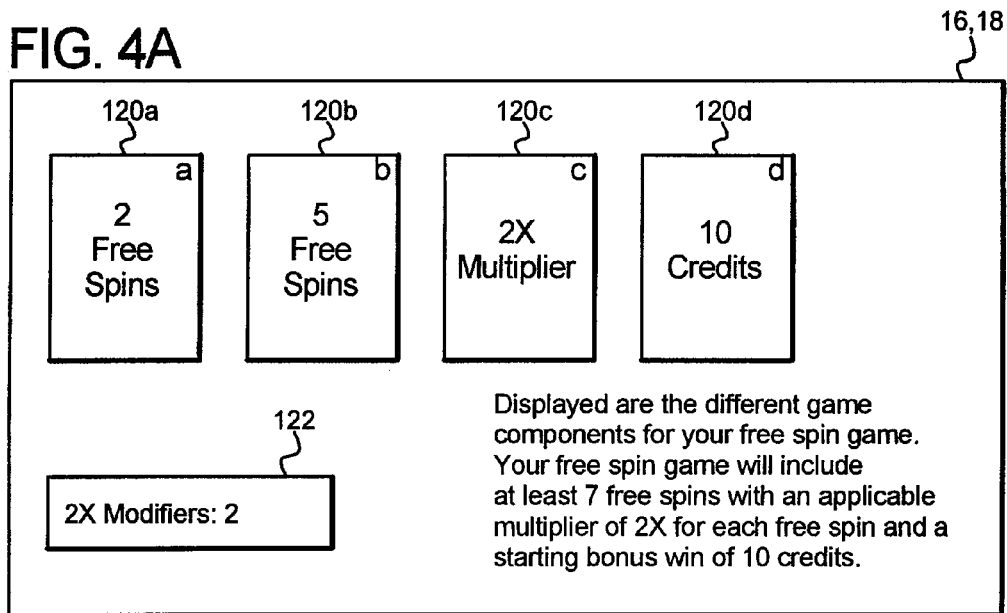


FIG. 4B

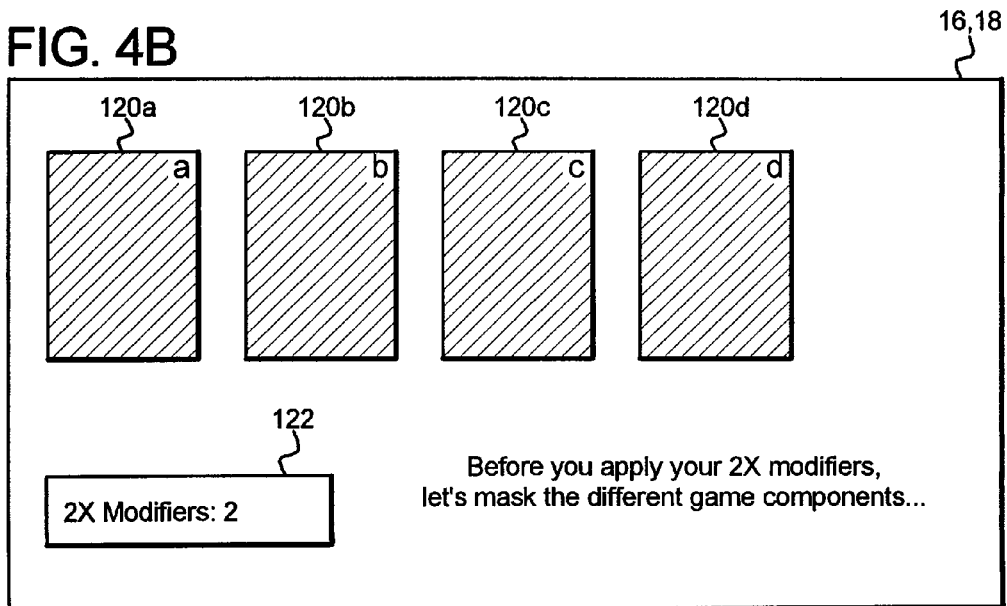


FIG. 4C

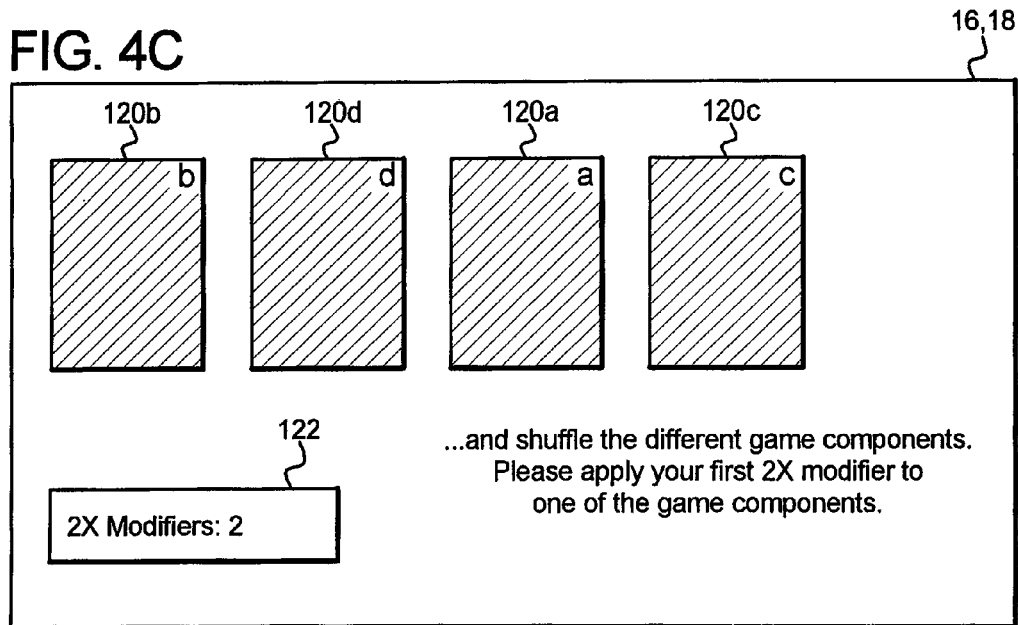


FIG. 4D

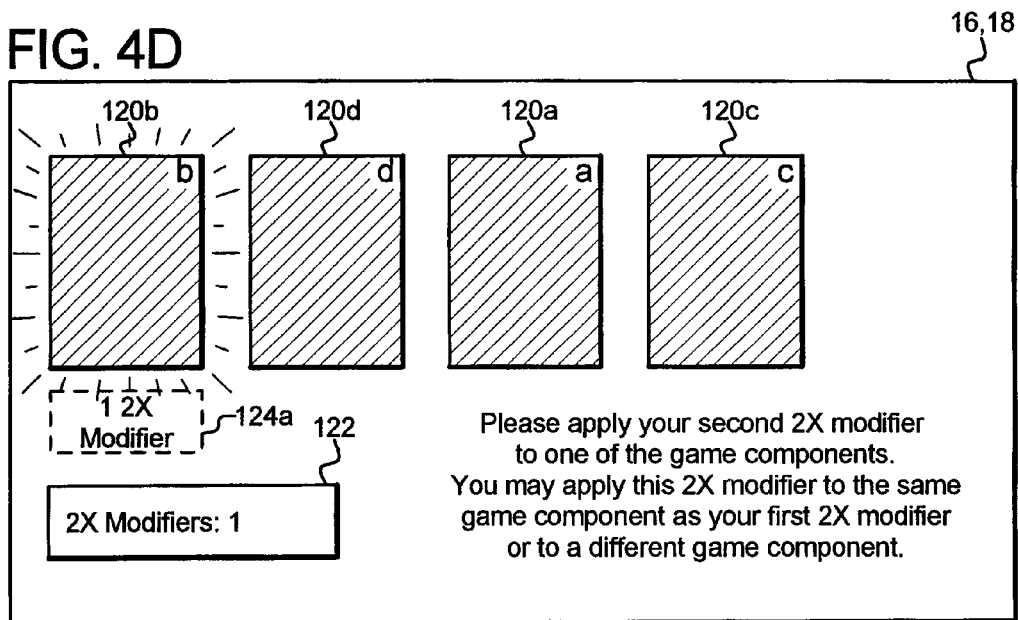


FIG. 4E

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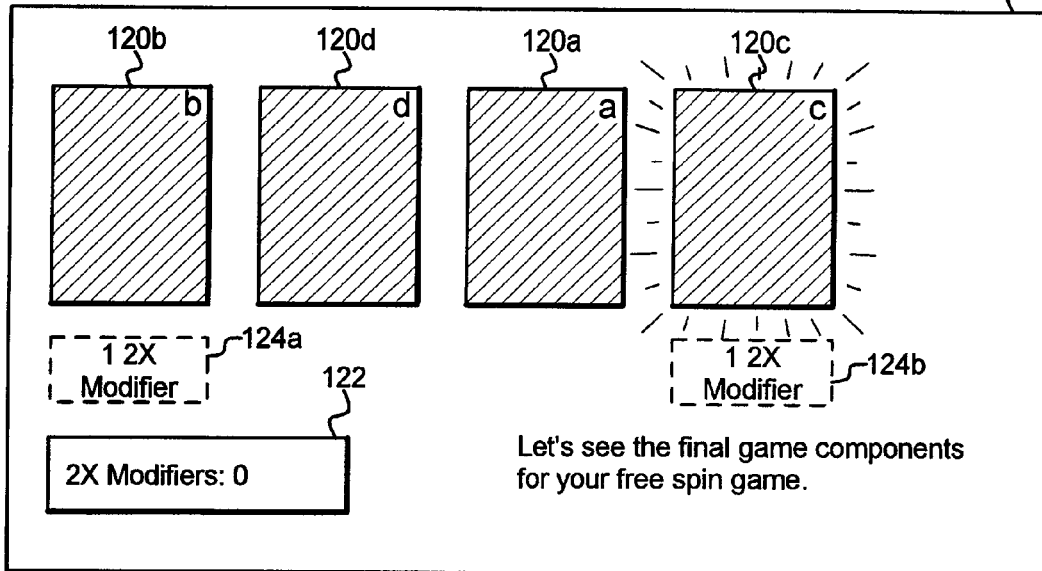
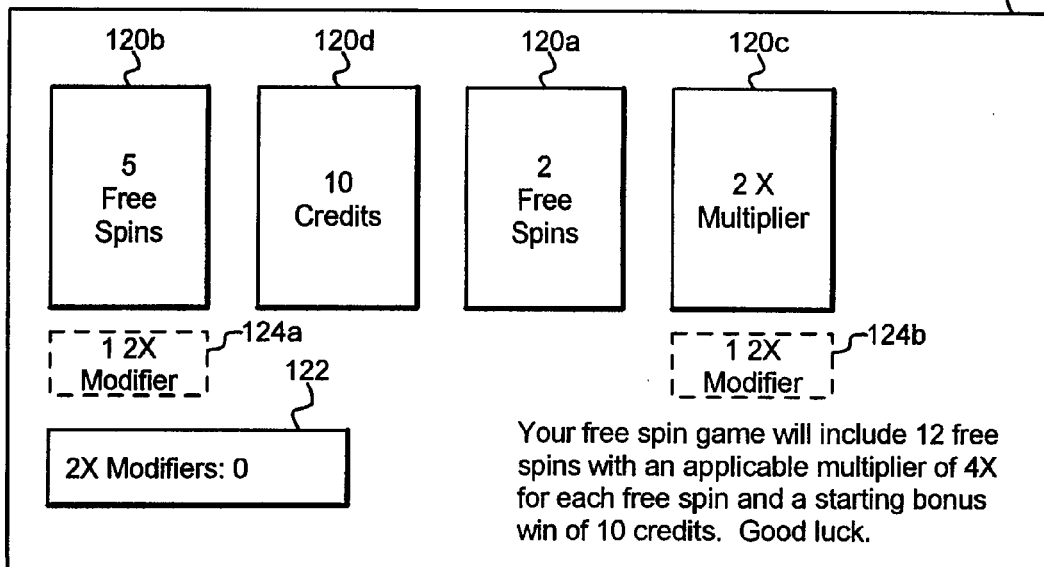


FIG. 4F

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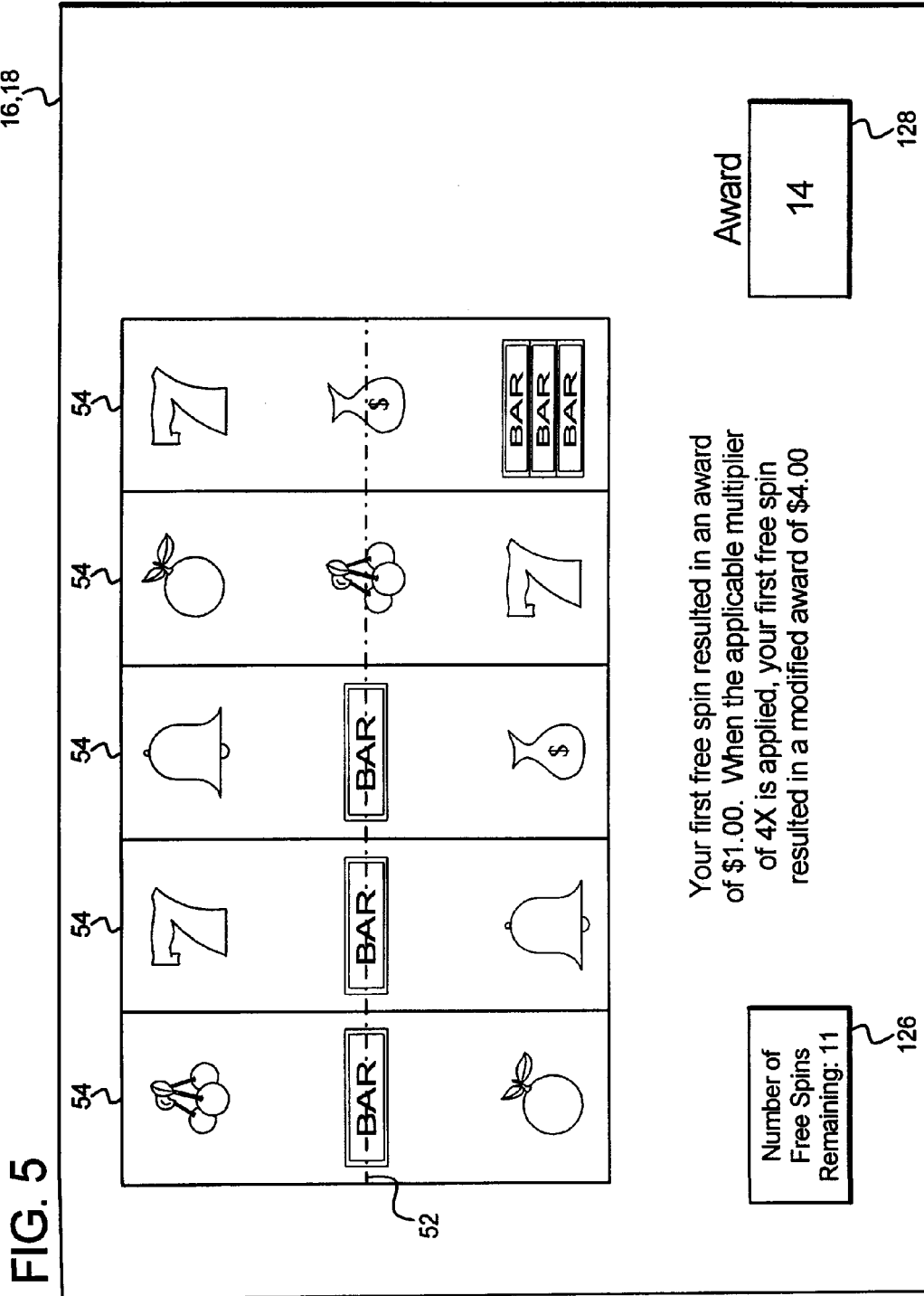


FIG. 6

Free Spin	Free Spin Award Amount	Modified Free Spin Award Amount
1	\$1.00	\$4.00
2	\$0.00	\$0.00
3	\$2.00	\$8.00
4	\$0.00	\$0.00
5	\$0.00	\$0.00
6	\$0.00	\$0.00
7	\$0.00	\$0.00
8	\$0.00	\$0.00
9	\$4.00	\$16.00
10	\$1.00	\$4.00
11	\$0.00	\$0.00
12	\$1.00	\$4.00
Total Free Spin Award		\$36.00

FIG. 7A

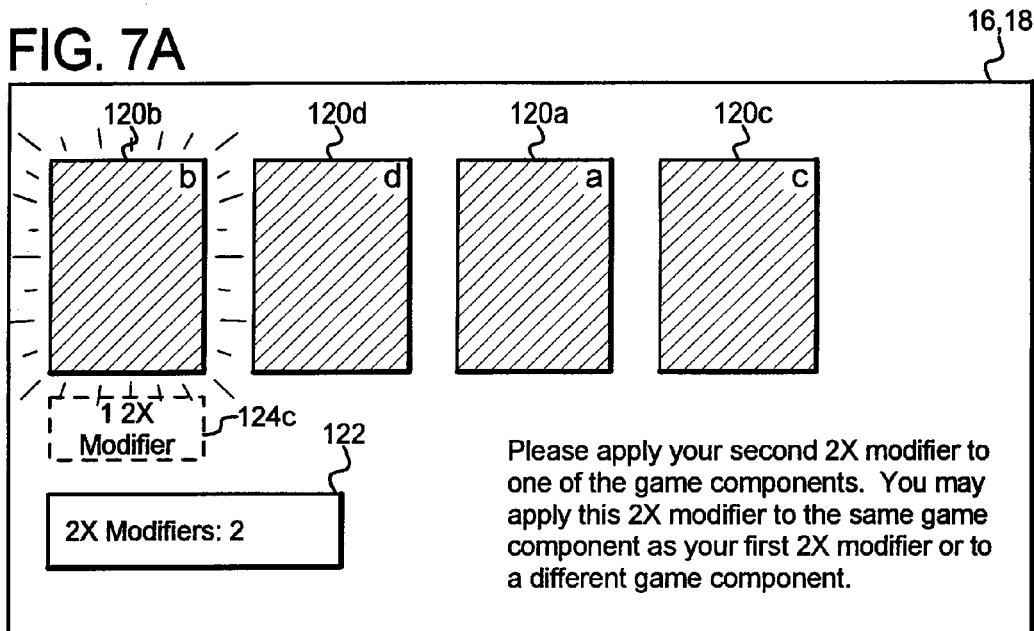


FIG. 7B

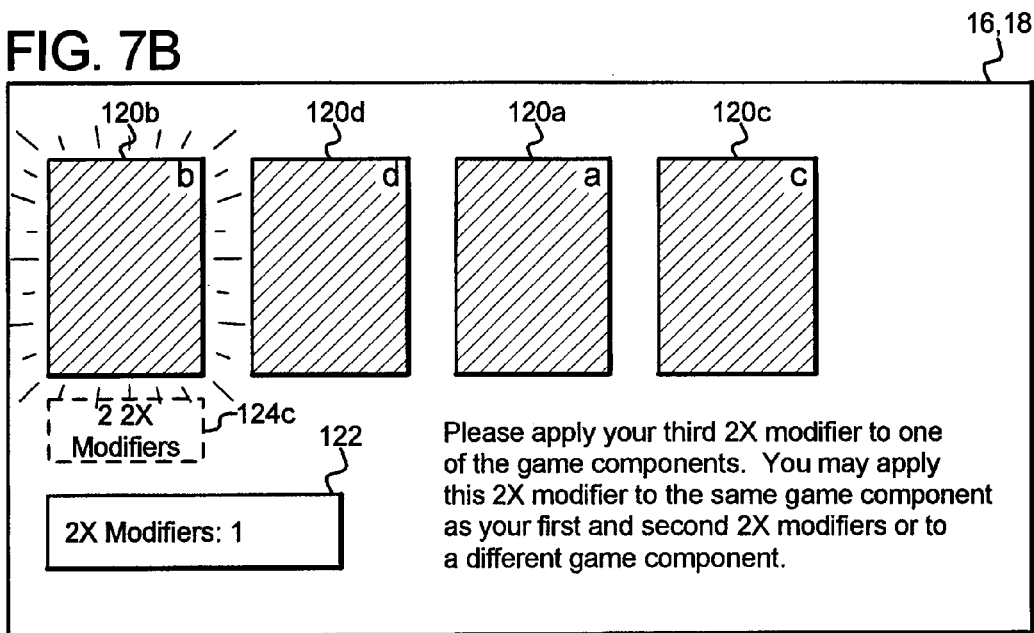


FIG. 7C

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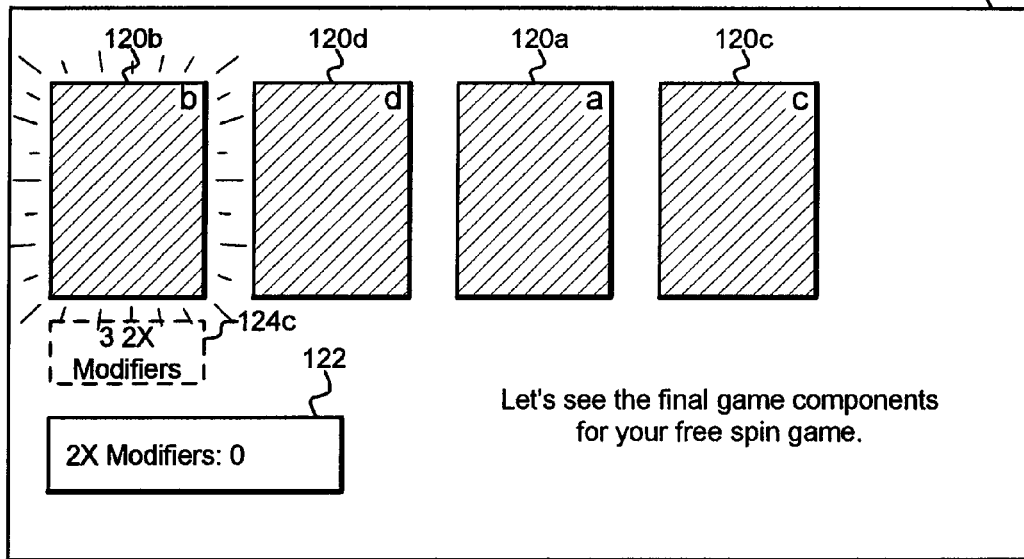
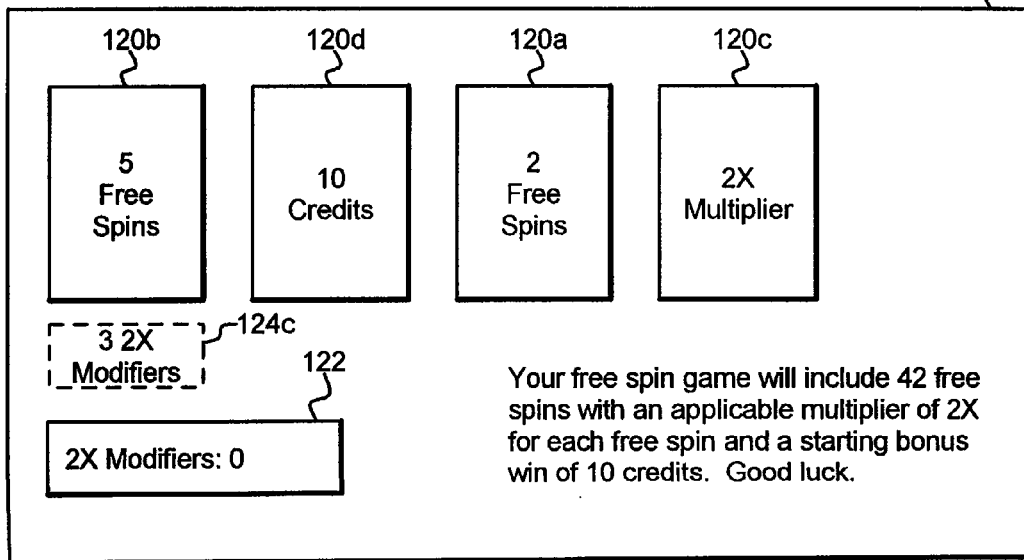


FIG. 7D

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GAMING DEVICE AND METHOD FOR PROVIDING PLAYER SELECTION OF MODIFIERS TO GAME COMPONENTS

PRIORITY CLAIM

This application is a continuation of, claims priority to and the benefit of U.S. patent application Ser. No. 14/645,113, filed on Mar. 11, 2015, which is a continuation of, claims priority to and the benefit of U.S. patent application Ser. No. 13/571,217, filed on Aug. 9, 2012, now U.S. Pat. No. 8,986,100, which is a continuation of, claims priority to and the benefit of U.S. patent application Ser. No. 11/877,508, filed on Oct. 23, 2007, now U.S. Pat. No. 8,262,455, the entire contents of each are incorporated by reference herein.

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BACKGROUND

Gaming machines which provide players awards in primary or base games are well known. Gaming machines generally require the player to place or make a wager to activate the primary or base game. In many of these gaming machines, the award is based on the player obtaining a winning symbol or symbol combination and on the amount of the wager (e.g., the higher the wager, the higher the award). Symbols or symbol combinations which are less likely to occur usually provide higher awards.

In such known gaming machines, the amount of the wager made on the base game by the player may vary. For instance, the gaming machine may enable the player to wager a minimum number of credits, such as one credit (e.g., one cent, nickel, dime, quarter or dollar) up to a maximum number of credits, such as five credits. This wager may be made by the player a single time or multiple times in a single play of the primary game. For instance, a slot game may have one or more paylines and the slot game may enable the player to make a wager on each payline in a single play of the primary game. Thus, it is known that a gaming machine, such as a slot game, may enable players to make wagers of substantially different amounts on each play of the primary or base game ranging, for example, from one credit up to 125 credits (e.g., five credits on each of 25 separate paylines). This is also true for other wagering games, such as video draw poker, where players can wager one or more credits on each hand and where multiple hands can be played simultaneously. Accordingly, it should be appreciated that different players play at substantially different wagering amounts or levels and at substantially different rates of play.

Secondary or bonus games are also known in gaming machines. The secondary or bonus games usually provide an additional award to the player. Secondary or bonus games usually do not require an additional wager by the player to be activated. Secondary or bonus games are generally activated or triggered upon an occurrence of a designated triggering symbol or triggering symbol combination in the primary or base game. For instance, a bonus symbol occurring on the payline on the third reel of a three reel slot machine may

trigger the secondary bonus game. When a secondary or bonus game is triggered, the gaming machines generally indicate this to the player through one or more visual and/or audio output devices, such as the reels, lights, speakers, video screens, etc. Part of the enjoyment and excitement of playing certain gaming machines is the occurrence or triggering of the secondary or bonus game (even before the player knows how much the bonus award will be).

One such secondary or bonus game for slot games provides a player one or more free spins. In these gaming devices, upon an occurrence of a triggering event in the primary game, the gaming device provides a free spin mode or sequence wherein one or more free spins of the reels are provided to the player. The player plays the free spin mode or sequence, likely receives one or more awards during one or more of the free spins and returns to the primary game. Free spin modes or sequences that provide players with large awards or the potential to win large awards are attractive to players. A need exists to provide new ways to provide awards in one or more free spin modes or sequences.

SUMMARY

In one embodiment, the gaming system and method disclosed herein provides a player one or more modifiers to apply to different game components or characteristics of a game. In one such embodiment, the gaming device enables a player to selectively apply or associate each of a plurality of modifiers to a single game component, to apply a plurality of modifiers to a single game component and apply a plurality of additional modifiers to a plurality of additional game components or to apply the plurality of modifiers to a plurality of different game components. Such an embodiment enables the player to determine how many modifiers, if any, to apply to an unknown game component by considering the ramifications of applying a plurality of modifiers to a plurality of unknown game components or applying a plurality of modifiers to a single, unknown game component. That is, the gaming device provides the player one or more decisions regarding how volatile the player wants the game and their overall gaming experience to be. Accordingly, the gaming device and method disclosed herein provides a player with a new and exciting game that enables the player to weigh options and explore the consequences of selecting those options in accumulating one or more awards.

In one embodiment, upon a suitable triggering event, the gaming device determines a number or quantity of modifiers to provide to the player. For example, the gaming device displays and provides a player two distinct or selectable modifiers of 2× each. In one embodiment, the quantity of modifiers provided and which modifiers are provided to the player are independent of any amount wagered by the player. In another embodiment, the number of modifiers to provide is determined based on the triggering event. In different embodiments, the number of modifiers to provide is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria.

After providing one or more modifiers, the gaming device initially displays one or more of a plurality of different components or characteristics of the game to be provided. For example, the gaming device initially displays to the player a free spin game which includes a first game component of six free spins, a second game component of an applicable multiplier of 2× per free spin and a third game component of a starting or minimum award amount of fifteen credits.

After initially displaying one or more of the different game components, the gaming device masks or conceals the game components. The gaming device displays the plurality of game components being shuffled into a different configuration such that the player does not know which shuffled game components are which. Such masking and shuffling provides that the player is unaware of which game components the player selects to modify and rather is only aware of the quantity of modifiers to apply to each unknown game component.

In one embodiment, the gaming device enables the player to associate any provided modifiers with any of the shuffled game components. In this embodiment, for each provided modifier, the gaming device enables the player to associate or apply that provided modifier to one of the shuffled game components, regardless of if any other provided modifiers were previously associated with or applied to that shuffled game component. Accordingly, the gaming device and method disclosed herein enables a player to determine whether to concentrate a plurality of modifiers on a single masked game component (and thus greatly increase the modification of that game component) or distribute the plurality of modifiers across a plurality of different masked game components.

After the player associates each provided modifier with one of the masked game components, in one embodiment, the gaming device reveals which game components the player associated with which modifiers. For each revealed game component which the player decided to apply at least one modifier to, the gaming device applies each associated modifier to result in a modified game component.

In a first example, if the player decides to distribute the two 2× modifiers amongst a plurality of game components, the player picks two different masked game components to apply one 2× modifier to each. In this example, the gaming device reveals that the player selectively associated one 2× modifier with the revealed game component of six free spins and also selectively associated another 2× modifier with the revealed game component of a starting award amount of fifteen credits. Accordingly, those game components are modified such that the gaming device will provide the player twelve free spins and a starting award amount of thirty credits in this first example free spin game. In a second example, if the player decides to concentrate the provided modifiers on a single masked game component, the player picks one of the masked game components to apply both 2× modifiers. In this example, the gaming device reveals that the player selectively associated both 2× modifiers with the revealed game component of an applicable multiplier of 2× per free spin. Accordingly, this game component is modified such that the gaming device will provide the player six free spins with an applicable multiplier of 8× per free spin in this second example free spin game.

After modifying one or more game components, the gaming device displays one or more plays of the game to the player utilizing any modified game components and any unmodified game components. After displaying the play of the game utilizing any modified game components and any

unmodified game components, the gaming device provides the player any awards determined for the play of the game and the game ends.

In the first example described above wherein the player modified the number of free spins from six free spins to twelve free spins (via one 2× modifier) and further modified the starting award from fifteen credits to thirty credits (via one 2× modifier), the gaming device proceeds with displaying to the player the twelve free spins (with the applicable multiplier of 2× for each free spin) to result in an award of twenty-two credits. This award, when added with the modified starting award of thirty credits results in a total award of fifty-two credits which are provided to the player.

In the second example wherein the player modified the applicable multiplier from 2× to 8× (via two 2× modifiers), the gaming device proceeded with displaying to the player the six free spins (with the applicable multiplier of 8× for each free spin) to result in an award of forty-four credits. This award, when added with the unmodified starting award of fifteen credits results in a total award of fifty-nine credits which are provided to the player. As illustrated by these two examples, the player's determination of whether to apply a plurality of provided modifiers to one game component or apply the plurality of provided modifiers to a plurality of game components affects the award provided to the player for the play of the game.

By enabling a player to determine whether to concentrate or stack a plurality of modifiers to apply to one game component or to distribute or spread out the plurality of modifiers to apply to a plurality of game components, the gaming device and method disclosed herein provides the player one or more decisions regarding how volatile the player wants the game and their overall gaming experience to be. Accordingly, the gaming device and method disclosed herein provides a player with a new and exciting game that enables the player to weigh options and explore the consequences of selecting those options in accumulating one or more awards. Such a configuration increases the players excitement and enjoyment in playing the gaming device and method disclosed herein.

Additional features and advantages of the present invention are described in, and will be apparent from, the following Detailed Description of the Invention and the figures.

BRIEF DESCRIPTION OF THE FIGURES

FIG. 1A is a front-side perspective view of one embodiment of the gaming device disclosed herein.

FIG. 1B is a front-side perspective view of another embodiment of the gaming device disclosed herein.

FIG. 2A is a schematic block diagram of the electronic configuration of one embodiment of the gaming device disclosed herein.

FIG. 2B is a schematic block diagram illustrating a plurality of gaming terminals in communication with a central controller.

FIG. 3 is a flowchart of one embodiment of the gaming device disclosed herein illustrating a player selectively modifying one or more game components of a free spin game.

FIGS. 4A, 4B, 4C, 4D, 4E, and 4F are front elevational views of one embodiment of the gaming device disclosed herein illustrating a player selectively modifying a plurality of game components of a free spin game with a plurality of modifiers.

FIG. 5 is a front elevational view of one embodiment of the gaming device disclosed herein illustrating one of the free spins of the free spin game of FIG. 4F provided to the player.

FIG. 6 is a chart illustrating the results of the free spin game of FIG. 4F.

FIGS. 7A, 7B, 7C and 7D are front elevational views of one embodiment of the gaming device disclosed herein illustrating a player selectively modifying one game component of a free spin game with a plurality of modifiers.

DETAILED DESCRIPTION

The present disclosure may be implemented in various configurations for gaming machines, gaming devices or gaming systems, including but not limited to: (1) a dedicated gaming machine, gaming device or gaming system wherein the computerized instructions for controlling any games (which are provided by the gaming machine or gaming device) are provided with the gaming machine or gaming device prior to delivery to a gaming establishment; and (2) a changeable gaming machine, gaming device or gaming system where the computerized instructions for controlling any games (which are provided by the gaming machine or gaming device) are downloadable to the gaming machine or gaming device through a data network when the gaming machine or gaming device is in a gaming establishment. In one embodiment, the computerized instructions for controlling any games are executed by at least one central server, central controller or remote host. In such a "thin client" embodiment, the central server remotely controls any games (or other suitable interfaces) and the gaming device is utilized to display such games (or suitable interfaces) and receive one or more inputs or commands from a player. In another embodiment, the computerized instructions for controlling any games are communicated from the central server, central controller or remote host to a gaming device local processor and memory devices. In such a "thick client" embodiment, the gaming device local processor executes the communicated computerized instructions to control any games (or other suitable interfaces) provided to a player.

In one embodiment, one or more gaming devices in a gaming system may be thin client gaming devices and one or more gaming devices in the gaming system may be thick client gaming devices. In another embodiment, certain functions of the gaming device are implemented in a thin client environment and certain other functions of the gaming device are implemented in a thick client environment. In one such embodiment, computerized instructions for controlling any primary games are communicated from the central server to the gaming device in a thick client configuration and computerized instructions for controlling any secondary games or bonus functions are executed by a central server in a thin client configuration.

Referring now to the drawings, two example alternative embodiments of the gaming device disclosed herein are illustrated in FIGS. 1A and 1B as gaming device 10a and gaming device 10b, respectively. Gaming device 10a and/or gaming device 10b are generally referred to herein as gaming device 10.

In the embodiments illustrated in FIGS. 1A and 1B, gaming device 10 has a support structure, housing or cabinet which provides support for a plurality of displays, inputs, controls and other features of a conventional gaming machine. It is configured so that a player can operate it while standing or sitting. The gaming device may be positioned on a base or stand or can be configured as a pub-style table-top game (not shown) which a player can operate preferably while sitting. As illustrated by the different configurations shown in FIGS. 1A and 1B, the gaming device may have varying cabinet and display configurations.

In one embodiment, as illustrated in FIG. 2A, the gaming device preferably includes at least one processor 12, such as a microprocessor, a microcontroller-based platform, a suitable integrated circuit or one or more application-specific integrated circuits (ASIC's). The processor is in communication with or operable to access or to exchange signals with at least one data storage or memory device 14. In one embodiment, the processor and the memory device reside within the cabinet of the gaming device. The memory device stores program code and instructions, executable by the processor, to control the gaming device. The memory device also stores other data such as image data, event data, player input data, random or pseudo-random number generators, pay-table data or information and applicable game rules that relate to the play of the gaming device. In one embodiment, the memory device includes random access memory (RAM), which can include non-volatile RAM (NVRAM), magnetic RAM (MRAM), ferroelectric RAM (FeRAM) and other forms as commonly understood in the gaming industry. In one embodiment, the memory device includes read only memory (ROM). In one embodiment, the memory device includes flash memory and/or EEPROM (electrically erasable programmable read only memory). Any other suitable magnetic, optical and/or semiconductor memory may operate in conjunction with the gaming device disclosed herein.

In one embodiment, part or all of the program code and/or operating data described above can be stored in a detachable or removable memory device, including, but not limited to, a suitable cartridge, disk, CD ROM, DVD or USB memory device. In other embodiments, part or all of the program code and/or operating data described above can be downloaded to the memory device through a suitable network.

In one embodiment, an operator or a player can use such a removable memory device in a desktop computer, a laptop personal computer, a personal digital assistant (PDA), portable computing device, or other computerized platform to implement the present disclosure. In one embodiment, the gaming device or gaming machine disclosed herein is operable over a wireless network, such as part of a wireless gaming system. In this embodiment, the gaming machine may be a hand held device, a mobile device or any other suitable wireless device that enables a player to play any suitable game at a variety of different locations. It should be appreciated that a gaming device or gaming machine as disclosed herein may be a device that has obtained approval from a regulatory gaming commission or a device that has not obtained approval from a regulatory gaming commission. It should be appreciated that the processor and memory device may be collectively referred to herein as a "computer" or "controller."

In one embodiment, as discussed in more detail below, the gaming device randomly generates awards and/or other game outcomes based on probability data. In one such embodiment, this random determination is provided through utilization of a random number generator (RNG), such as a true random number generator, a pseudo random number generator or other suitable randomization process. In one embodiment, each award or other game outcome is associated with a probability and the gaming device generates the award or other game outcome to be provided to the player based on the associated probabilities. In this embodiment, since the gaming device generates outcomes randomly or based upon one or more probability calculations, there is no certainty that the gaming device will ever provide the player with any specific award or other game outcome.

In another embodiment, as discussed in more detail below, the gaming device employs a predetermined or finite set or pool of awards or other game outcomes. In this embodiment,

as each award or other game outcome is provided to the player, the gaming device flags or removes the provided award or other game outcome from the predetermined set or pool. Once flagged or removed from the set or pool, the specific provided award or other game outcome from that specific pool cannot be provided to the player again. This type of gaming device provides players with all of the available awards or other game outcomes over the course of the play cycle and guarantees the amount of actual wins and losses.

In another embodiment, as discussed below, upon a player initiating game play at the gaming device, the gaming device enrolls in a bingo game. In this embodiment, a bingo server calls the bingo balls that result in a specific bingo game outcome. The resultant game outcome is communicated to the individual gaming device to be provided to a player. In one embodiment, this bingo outcome is displayed to the player as a bingo game and/or in any form in accordance with the present disclosure.

In one embodiment, as illustrated in FIG. 2A, the gaming device includes one or more display devices controlled by the processor. The display devices are preferably connected to or mounted to the cabinet of the gaming device. The embodiment shown in FIG. 1A includes a central display device 16 which displays a primary game. This display device may also display any suitable secondary game associated with the primary game as well as information relating to the primary or secondary game. The alternative embodiment shown in FIG. 1B includes a central display device 16 and an upper display device 18. The upper display device may display the primary game, any suitable secondary game associated or not associated with the primary game and/or information relating to the primary or secondary game. These display devices may also serve as digital glass operable to advertise games or other aspects of the gaming establishment. As seen in FIGS. 1A and 1B, in one embodiment, the gaming device includes a credit display 20 which displays a player's current number of credits, cash, account balance or the equivalent. In one embodiment, the gaming device includes a bet display 22 which displays a player's amount wagered. In one embodiment, as described in more detail below, the gaming device includes a player tracking display 40 which displays information regarding a player's playing tracking status.

In another embodiment, at least one display device may be a mobile display device, such as a PDA or tablet PC, that enables play of at least a portion of the primary or secondary game at a location remote from the gaming device.

The display devices may include, without limitation, a monitor, a television display, a plasma display, a liquid crystal display (LCD) a display based on light emitting diodes (LED), a display based on a plurality of organic light-emitting diodes (OLEDs), a display based on polymer light-emitting diodes (PLEDs), a display based on a plurality of surface-conduction electron-emitters (SEDs), a display including a projected and/or reflected image or any other suitable electronic device or display mechanism. In one embodiment, as described in more detail below, the display device includes a touch-screen with an associated touch-screen controller. The display devices may be of any suitable size and configuration, such as a square, a rectangle or an elongated rectangle.

The display devices of the gaming device are configured to display at least one and preferably a plurality of game or other suitable images, symbols and indicia such as any visual representation or exhibition of the movement of objects such as mechanical, virtual or video reels and wheels, dynamic lighting, video images, images of people, characters, places, things and faces of cards, and the like.

In one alternative embodiment, the symbols, images and indicia displayed on or of the display device may be in mechanical form. That is, the display device may include any electromechanical device, such as one or more mechanical objects, such as one or more rotatable wheels, reels or dice, configured to display at least one or a plurality of game or other suitable images, symbols or indicia.

As illustrated in FIG. 2A, in one embodiment, the gaming device includes at least one payment device 24 in communication with the processor. As seen in FIGS. 1A and 1B, a payment device such as a payment acceptor includes a note, ticket or bill acceptor 28 wherein the player inserts paper money, a ticket or voucher and a coin slot 26 where the player inserts money, coins, or tokens. In other embodiments, payment devices such as readers or validators for credit cards, debit cards or credit slips may accept payment. In one embodiment, a player may insert an identification card into a card reader of the gaming device. In one embodiment, the identification card is a smart card having a programmed microchip or a magnetic strip coded with a player's identification, credit totals (or related data) and other relevant information. In another embodiment, a player may carry a portable device, such as a cell phone, a radio frequency identification tag or any other suitable wireless device, which communicates a player's identification, credit totals (or related data) and other relevant information to the gaming device. In one embodiment, money may be transferred to a gaming device through electronic funds transfer. When a player funds the gaming device, the processor determines the amount of funds entered and displays the corresponding amount on the credit or other suitable display as described above.

As seen in FIGS. 1A, 1B and 2A, in one embodiment the gaming device includes at least one and preferably a plurality of input devices 30 in communication with the processor. The input devices can include any suitable device which enables the player to produce an input signal which is received by the processor. In one embodiment, after appropriate funding of the gaming device, the input device is a game activation device, such as a play button 32 or a pull arm (not shown) which is used by the player to start any primary game or sequence of events in the gaming device. The play button can be any suitable play activator such as a bet one button, a max bet button or a repeat the bet button. In one embodiment, upon appropriate funding, the gaming device begins the game play automatically. In another embodiment; upon the player engaging one of the play buttons, the gaming device automatically activates game play.

In one embodiment, one input device is a bet one button. The player places a bet by pushing the bet one button. The player can increase the bet by one credit each time the player pushes the bet one button. When the player pushes the bet one button, the number of credits shown in the credit display preferably decreases by one, and the number of credits shown in the bet display preferably increases by one. In another embodiment, one input device is a bet max button (not shown) which enables the player to bet the maximum wager permitted for a game of the gaming device.

In one embodiment, one input device is a cash out button 34. The player may push the cash out button and cash out to receive a cash payment or other suitable form of payment corresponding to the number of remaining credits. In one embodiment, when the player cashes out, a payment device, such as a ticket, payment or note generator 36 prints or otherwise generates a ticket or credit slip to provide to the player. The player receives the ticket or credit slip and may redeem the value associated with the ticket or credit slip via a cashier (or other suitable redemption system). In another embodi-

ment, when the player cashes out, the player receives the coins or tokens in a coin payout tray. It should be appreciated that any suitable payout mechanisms, such as funding to the player's electronically recordable identification card may be implemented in accordance with the gaming device disclosed herein.

In one embodiment, as mentioned above and seen in FIG. 2A, one input device is a touch-screen 42 coupled with a touch-screen controller 44, or some other touch-sensitive display overlay to allow for player interaction with the images on the display. The touch-screen and the touch-screen controller are connected to a video controller 46. A player can make decisions and input signals into the gaming device by touching the touch-screen at the appropriate places. One such input device is a conventional touch-screen button panel.

The gaming device may further include a plurality of communication ports for enabling communication of the processor with external peripherals, such as external video sources, expansion buses, game or other displays, an SCSI port or a key pad.

In one embodiment, as seen in FIG. 2A, the gaming device includes a sound generating device controlled by one or more sounds cards 48 which function in conjunction with the processor. In one embodiment, the sound generating device includes at least one and preferably a plurality of speakers 50 or other sound generating hardware and/or software for generating sounds, such as playing music for the primary and/or secondary game or for other modes of the gaming device, such as an attract mode. In one embodiment, the gaming device provides dynamic sounds coupled with attractive multimedia images displayed on one or more of the display devices to provide an audio-visual representation or to otherwise display full-motion video with sound to attract players to the gaming device. During idle periods, the gaming device may display a sequence of audio and/or visual attraction messages to attract potential players to the gaming device. The videos may also be customized for or to provide any appropriate information.

In one embodiment, the gaming machine may include a sensor, such as a camera in communication with the processor (and possibly controlled by the processor) that is selectively positioned to acquire an image of a player actively using the gaming device and/or the surrounding area of the gaming device. In one embodiment, the camera may be configured to selectively acquire still or moving (e.g., video) images and may be configured to acquire the images in either an analog, digital or other suitable format. The display devices may be configured to display the image acquired by the camera as well as display the visible manifestation of the game in split screen or picture-in-picture fashion. For example, the camera may acquire an image of the player and the processor may incorporate that image into the primary and/or secondary game as a game image, symbol or indicia.

Gaming device 10 can incorporate any suitable wagering primary or base game. The gaming machine or device may include some or all of the features of conventional gaming machines or devices. The primary or base game may comprise any suitable reel-type game, card game, cascading or falling symbol game, number game or other game of chance susceptible to representation in an electronic or electromechanical form, which in one embodiment produces a random outcome based on probability data at the time of or after placement of a wager. That is, different primary wagering games, such as video poker games, video blackjack games, video keno, video bingo or any other suitable primary or base game may be implemented.

In one embodiment, as illustrated in FIGS. 1A and 1B, a base or primary game may be a slot game with one or more paylines 52. The paylines may be horizontal, vertical, circular, diagonal, angled or any combination thereof. In this embodiment, the gaming device includes at least one and preferably a plurality of reels 54, such as three to five reels 54, in either electromechanical form with mechanical rotating reels or video form with simulated reels and movement thereof. In one embodiment, an electromechanical slot machine includes a plurality of adjacent, rotatable reels which may be combined and operably coupled with an electronic display of any suitable type. In another embodiment, if the reels 54 are in video form, one or more of the display devices, as described above, display the plurality of simulated video reels 54. Each reel 54 displays a plurality of indicia or symbols, such as bells, hearts, fruits, numbers, letters, bars or other images which preferably correspond to a theme associated with the gaming device. In another embodiment, one or more of the reels are independent reels or unisymbol reels. In this embodiment, each independent or unisymbol reel generates and displays one symbol to the player. In one embodiment, the gaming device awards prizes after the reels of the primary game stop spinning if specified types and/or configurations of indicia or symbols occur on an active payline or otherwise occur in a winning pattern, occur on the requisite number of adjacent reels and/or occur in a scatter pay arrangement.

In an alternative embodiment, rather than determining any outcome to provide to the player by analyzing the symbols generated on any wagered upon paylines as described above, the gaming device determines any outcome to provide to the player based on the number of associated symbols which are generated in active symbol positions on the requisite number of adjacent reels (i.e., not on paylines passing through any displayed winning symbol combinations). In this embodiment, if a winning symbol combination is generated on the reels, the gaming device provides the player one award for that occurrence of the generated winning symbol combination. For example, if one winning symbol combination is generated on the reels, the gaming device will provide a single award to the player for that winning symbol combination (i.e., not based on the number of paylines that would have passed through that winning symbol combination). It should be appreciated that because a gaming device with wagering on ways to win provides the player one award for a single occurrence of a winning symbol combination and a gaming device with paylines may provide the player more than one award for the same occurrence of a single winning symbol combination (i.e., if a plurality of paylines each pass through the same winning symbol combination), it is possible to provide a player at a ways to win gaming device with more ways to win for an equivalent bet or wager on a traditional slot gaming device with paylines.

In one embodiment, the total number of ways to win is determined by multiplying the number of symbols generated in active symbol positions on a first reel by the number of symbols generated in active symbol positions on a second reel by the number of symbols generated in active symbol positions on a third reel and so on for each reel of the gaming device with at least one symbol generated in an active symbol position. For example, a three reel gaming device with three symbols generated in active symbol positions on each reel includes 27 ways to win (i.e., 3 symbols on the first reel \times 3 symbols on the second reel \times 3 symbols on the third reel). A four reel gaming device with three symbols generated in active symbol positions on each reel includes 81 ways to win (i.e., 3 symbols on the first reel \times 3 symbols on the second

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reel×3 symbols on the third reel×3 symbols on the fourth reel). A five reel gaming device with three symbols generated in active symbol positions on each reel includes 243 ways to win (i.e., 3 symbols on the first reel×3 symbols on the second reel×3 symbols on the third reel×3 symbols on the fourth reel×3 symbols on the fifth reel). It should be appreciated that modifying the number of generated symbols by either modifying the number of reels or modifying the number of symbols generated in active symbol positions by one or more of the reels, modifies the number of ways to win.

In another embodiment, the gaming device enables a player to wager on and thus activate symbol positions. In one such embodiment, the symbol positions are on the reels. In this embodiment, if based on the player's wager, a reel is activated, then each of the symbol positions of that reel will be activated and each of the active symbol positions will be part of one or more of the ways to win. In one embodiment, if based on the player's wager, a reel is not activated, then a designated number of default symbol positions, such as a single symbol position of the middle row of the reel, will be activated and the default symbol position(s) will be part of one or more of the ways to win. This type of gaming machine enables a player to wager on one, more or each of the reels and the processor of the gaming device uses the number of wagered on reels to determine the active symbol positions and the number of possible ways to win. In alternative embodiments, (1) no symbols are displayed as generated at any of the inactive symbol positions, or (2) any symbols generated at any inactive symbol positions may be displayed to the player but suitably shaded or otherwise designated as inactive.

In one embodiment wherein a player wagers on one or more reels, a player's wager of one credit may activate each of the three symbol positions on a first reel, wherein one default symbol position is activated on each of the remaining four reels. In this example, as described above, the gaming device provides the player three ways to win (i.e., 3 symbols on the first reel×1 symbol on the second reel×1 symbol on the third reel×1 symbol on the fourth reel×1 symbol on the fifth reel). In another example, a player's wager of nine credits may activate each of the three symbol positions on a first reel, each of the three symbol positions on a second reel and each of the three symbol positions on a third reel wherein one default symbol position is activated on each of the remaining two reels. In this example, as described above, the gaming device provides the player twenty-seven ways to win (i.e., 3 symbols on the first reel×3 symbols on the second reel×3 symbols on the third reel×1 symbol on the fourth reel×1 symbol on the fifth reel).

In one embodiment, to determine any award(s) to provide to the player based on the generated symbols, the gaming device individually determines if a symbol generated in an active symbol position on a first reel forms part of a winning symbol combination with or is otherwise suitably related to a symbol generated in an active symbol position on a second reel. In this embodiment, the gaming device classifies each pair of symbols which form part of a winning symbol combination (i.e., each pair of related symbols) as a string of related symbols. For example, if active symbol positions include a first cherry symbol generated in the top row of a first reel and a second cherry symbol generated in the bottom row of a second reel, the gaming device classifies the two cherry symbols as a string of related symbols because the two cherry symbols form part of a winning symbol combination.

After determining if any strings of related symbols are formed between the symbols on the first reel and the symbols on the second reel, the gaming device determines if any of the symbols from the next adjacent reel should be added to any of

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the formed strings of related symbols. In this embodiment, for a first of the classified strings of related symbols, the gaming device determines if any of the symbols generated by the next adjacent reel form part of a winning symbol combination or are otherwise related to the symbols of the first string of related symbols. If the gaming device determines that a symbol generated on the next adjacent reel is related to the symbols of the first string of related symbols, that symbol is subsequently added to the first string of related symbols. For example, if the first string of related symbols is the string of related cherry symbols and a related cherry symbol is generated in the middle row of the third reel, the gaming device adds the related cherry symbol generated on the third reel to the previously classified string of cherry symbols.

On the other hand, if the gaming device determines that no symbols generated on the next adjacent reel are related to the symbols of the first string of related symbols, the gaming device marks or flags such string of related symbols as complete. For example, if the first string of related symbols is the string of related cherry symbols and none of the symbols of the third reel are related to the cherry symbols of the previously classified string of cherry symbols, the gaming device marks or flags the string of cherry symbols as complete.

After either adding a related symbol to the first string of related symbols or marking the first string of related symbols as complete, the gaming device proceeds as described above for each of the remaining classified strings of related symbols which were previously classified or formed from related symbols on the first and second reels.

After analyzing each of the remaining strings of related symbols, the gaming device determines, for each remaining pending or incomplete string of related symbols, if any of the symbols from the next adjacent reel, if any, should be added to any of the previously classified strings of related symbols. This process continues until either each string of related symbols is complete or there are no more adjacent reels of symbols to analyze. In this embodiment, where there are no more adjacent reels of symbols to analyze, the gaming device marks each of the remaining pending strings of related symbols as complete.

When each of the strings of related symbols is marked complete, the gaming device compares each of the strings of related symbols to an appropriate payable and provides the player any award associated with each of the completed strings of symbols. It should be appreciated that the player is provided one award, if any, for each string of related symbols generated in active symbol positions (i.e., as opposed to being based on how many paylines that would have passed through each of the strings of related symbols in active symbol positions).

In one embodiment, a base or primary game may be a poker game wherein the gaming device enables the player to play a conventional game of video draw poker and initially deals five cards all face up from a virtual deck of fifty-two card deck. Cards may be dealt as in a traditional game of cards or in the case of the gaming device, may also include that the cards are randomly selected from a predetermined number of cards. If the player wishes to draw, the player selects the cards to hold via one or more input device, such as pressing related hold buttons or via the touch screen. The player then presses the deal button and the unwanted or discarded cards are removed from the display and the gaming machine deals the replacement cards from the remaining cards in the deck. This results in a final five-card hand. The gaming device compares the final five-card hand to a payout table which utilizes conventional poker hand rankings to determine the winning

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hands. The gaming device provides the player with an award based on a winning hand and the credits the player wagered.

In another embodiment, the base or primary game may be a multi-hand version of video poker. In this embodiment, the gaming device deals the player at least two hands of cards. In one such embodiment, the cards are the same cards. In one embodiment each hand of cards is associated with its own deck of cards. The player chooses the cards to hold in a primary hand. The held cards in the primary hand are also held in the other hands of cards. The remaining non-held cards are removed from each hand displayed and for each hand replacement cards are randomly dealt into that hand. Since the replacement cards are randomly dealt independently for each hand, the replacement cards for each hand will usually be different. The poker hand rankings are then determined hand by hand and awards are provided to the player.

In one embodiment, a base or primary game may be a keno game wherein the gaming device displays a plurality of selectable indicia or numbers on at least one of the display devices. In this embodiment, the player selects at least one or a plurality of the selectable indicia or numbers via an input device such as the touch screen. The gaming device then displays a series of drawn numbers to determine an amount of matches, if any, between the player's selected numbers and the gaming device's drawn numbers. The player is provided an award based on the amount of matches, if any, based on the amount of determined matches and the number of numbers drawn.

In one embodiment, in addition to winning credits or other awards in a base or primary game, the gaming device may also give players the opportunity to win credits in a bonus or secondary game or bonus or secondary round. The bonus or secondary game enables the player to obtain a prize or payout in addition to the prize or payout, if any, obtained from the base or primary game. In general, a bonus or secondary game produces a significantly higher level of player excitement than the base or primary game because it provides a greater expectation of winning than the base or primary game and is accompanied with more attractive or unusual features than the base or primary game. In one embodiment, the bonus or secondary game may be any type of suitable game, either similar to or completely different from the base or primary game.

In one embodiment, the triggering event or qualifying condition may be a selected outcome in the primary game or a particular arrangement of one or more indicia on a display device in the primary game, such as the number seven appearing on three adjacent reels along a payline in the primary slot game embodiment seen in FIGS. 1A and 1B. In other embodiments, the triggering event or qualifying condition may be by exceeding a certain amount of game play (such as number of games, number of credits, amount of time), or reaching a specified number of points earned during game play.

In another embodiment, the gaming device processor 12 or central server 56 randomly provides the player one or more plays of one or more secondary games. In one such embodiment, the gaming device does not provide any apparent reasons to the player for qualifying to play a secondary or bonus game. In this embodiment, qualifying for a bonus game is not triggered by an event in or based specifically on any of the plays of any primary game. That is, the gaming device may simply qualify a player to play a secondary game without any explanation or alternatively with simple explanations. In another embodiment, the gaming device (or central server) qualifies a player for a secondary game at least partially based on a game triggered or symbol triggered event, such as at least partially based on the play of a primary game.

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In one embodiment, the gaming device includes a program which will automatically begin a bonus round after the player has achieved a triggering event or qualifying condition in the base or primary game. In another embodiment, after a player has qualified for a bonus game, the player may subsequently enhance his/her bonus game participation through continued play on the base or primary game. Thus, for each bonus qualifying event, such as a bonus symbol, that the player obtains, a given number of bonus game wagering points or credits may be accumulated in a "bonus meter" programmed to accrue the bonus wagering credits or entries toward eventual participation in a bonus game. The occurrence of multiple such bonus qualifying events in the primary game may result in an arithmetic or exponential increase in the number of bonus wagering credits awarded. In one embodiment, the player may redeem extra bonus wagering credits during the bonus game to extend play of the bonus game.

In one embodiment, no separate entry fee or buy in for a bonus game need be employed. That is, a player may not purchase an entry into a bonus game, rather they must win or earn entry through play of the primary game thus, encouraging play of the primary game. In another embodiment, qualification of the bonus or secondary game is accomplished through a simple "buy in" by the player, for example, if the player has been unsuccessful at qualifying through other specified activities. In another embodiment, the player must make a separate side-wager on the bonus game or wager a designated amount in the primary game to qualify for the secondary game. In this embodiment, the secondary game triggering event must occur and the side-wager (or designated primary game wager amount) must have been placed to trigger the secondary game.

In one embodiment, as illustrated in FIG. 2B, one or more of the gaming devices 10 are in communication with each other and/or at least one central server, central controller or remote host 56 through a data network or remote communication link 58. In this embodiment, the central server, central controller or remote host is any suitable server or computing device which includes at least one processor and at least one memory or storage device. In different such embodiments, the central server is a progressive controller or a processor of one of the gaming devices in the gaming system. In these embodiments, the processor of each gaming device is designed to transmit and receive events, messages, commands or any other suitable data or signal between the individual gaming device and the central server. The gaming device processor is operable to execute such communicated events, messages or commands in conjunction with the operation of the gaming device. Moreover, the processor of the central server is designed to transmit and receive events, messages, commands or any other suitable data or signal between the central server and each of the individual gaming devices. The central server processor is operable to execute such communicated events, messages or commands in conjunction with the operation of the central server. It should be appreciated that one, more or each of the functions of the central controller as disclosed herein may be performed by one or more gaming device processors. It should be further appreciated that one, more or each of the functions of one or more gaming device processors as disclosed herein may be performed by the central controller.

In one embodiment, the game outcome provided to the player is determined by a central server or controller and provided to the player at the gaming device. In this embodiment, each of a plurality of such gaming devices are in communication with the central server or controller. Upon a player initiating game play at one of the gaming devices, the

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initiated gaming device communicates a game outcome request to the central server or controller.

In one embodiment, the central server or controller receives the game outcome request and randomly generates a game outcome for the primary game based on probability data. In another embodiment, the central server or controller randomly generates a game outcome for the secondary game based on probability data. In another embodiment, the central server or controller randomly generates a game outcome for both the primary game and the secondary game based on probability data. In this embodiment, the central server or controller is capable of storing and utilizing program code or other data similar to the processor and memory device of the gaming device.

In an alternative embodiment, the central server or controller maintains one or more predetermined pools or sets of predetermined game outcomes. In this embodiment, the central server or controller receives the game outcome request and independently selects a predetermined game outcome from a set or pool of game outcomes. The central server or controller flags or marks the selected game outcome as used. Once a game outcome is flagged as used, it is prevented from further selection from the set or pool and cannot be selected by the central controller or server upon another wager. The provided game outcome can include a primary game outcome, a secondary game outcome, primary and secondary game outcomes, or a series of game outcomes such as free games.

The central server or controller communicates the generated or selected game outcome to the initiated gaming device. The gaming device receives the generated or selected game outcome and provides the game outcome to the player. In an alternative embodiment, how the generated or selected game outcome is to be presented or displayed to the player, such as a reel symbol combination of a slot machine or a hand of cards dealt in a card game, is also determined by the central server or controller and communicated to the initiated gaming device to be presented or displayed to the player. Central production or control can assist a gaming establishment or other entity in maintaining appropriate records, controlling gaming, reducing and preventing cheating or electronic or other errors, reducing or eliminating win-loss volatility and the like.

In another embodiment, a predetermined game outcome value is determined for each of a plurality of linked or networked gaming devices based on the results of a bingo, keno or lottery game. In this embodiment, each individual gaming device utilizes one or more bingo, keno or lottery games to determine the predetermined game outcome value provided to the player for the interactive game played at that gaming device. In one embodiment, the bingo, keno or lottery game is displayed to the player. In another embodiment, the bingo, keno or lottery game is not displayed to the player, but the results of the bingo, keno or lottery game determine the predetermined game outcome value for the primary or secondary game.

In the various bingo embodiments, as each gaming device is enrolled in the bingo game, such as upon an appropriate wager or engaging an input device, the enrolled gaming device is provided or associated with a different bingo card. Each bingo card consists of a matrix or array of elements, wherein each element is designated with a separate indicia, such as a number. It should be appreciated that each different bingo card includes a different combination of elements. For example, if four bingo cards are provided to four enrolled gaming devices, the same element may be present on all four

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of the bingo cards while another element may solely be present on one of the bingo cards.

In operation of these embodiments, upon providing or associating a different bingo card to each of a plurality of enrolled gaming devices, the central controller randomly selects or draws, one at a time, a plurality of the elements. As each element is selected, a determination is made for each gaming device as to whether the selected element is present on the bingo card provided to that enrolled gaming device. This determination can be made by the central controller, the gaming device, a combination of the two, or in any other suitable manner. If the selected element is present on the bingo card provided to that enrolled gaming device, that selected element on the provided bingo card is marked or flagged. This process of selecting elements and marking any selected elements on the provided bingo cards continues until one or more predetermined patterns are marked on one or more of the provided bingo cards. It should be appreciated that in one embodiment, the gaming device requires the player to engage a daub button (not shown) to initiate the process of the gaming device marking or flagging any selected elements.

After one or more predetermined patterns are marked on one or more of the provided bingo cards, a game outcome is determined for each of the enrolled gaming devices based, at least in part, on the selected elements on the provided bingo cards. As described above, the game outcome determined for each gaming device enrolled in the bingo game is utilized by that gaming device to determine the predetermined game outcome provided to the player. For example, a first gaming device to have selected elements marked in a predetermined pattern is provided a first outcome of win \$10 which will be provided to a first player regardless of how the first player plays in a first game and a second gaming device to have selected elements marked in a different predetermined pattern is provided a second outcome of win \$2 which will be provided to a second player regardless of how the second player plays a second game. It should be appreciated that as the process of marking selected elements continues until one or more predetermined patterns are marked, this embodiment ensures that at least one bingo card will win the bingo game and thus at least one enrolled gaming device will provide a predetermined winning game outcome to a player. It should be appreciated that other suitable methods for selecting or determining one or more predetermined game outcomes may be employed.

In one example of the above-described embodiment, the predetermined game outcome may be based on a supplemental award in addition to any award provided for winning the bingo game as described above. In this embodiment, if one or more elements are marked in supplemental patterns within a designated number of drawn elements, a supplemental or intermittent award or value associated with the marked supplemental pattern is provided to the player as part of the predetermined game outcome. For example, if the four corners of a bingo card are marked within the first twenty selected elements, a supplemental award of \$10 is provided to the player as part of the predetermined game outcome. It should be appreciated that in this embodiment, the player of a gaming device may be provided a supplemental or intermittent award regardless of if the enrolled gaming device's provided bingo card wins or does not win the bingo game as described above.

In another embodiment, one or more of the gaming devices are in communication with a central server or controller for monitoring purposes only. That is, each individual gaming device randomly generates the game outcomes to be provided

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to the player and the central server or controller monitors the activities and events occurring on the plurality of gaming devices. In one embodiment, the gaming network includes a real-time or on-line accounting and gaming information system operably coupled to the central server or controller. The accounting and gaming information system of this embodiment includes a player database for storing player profiles, a player tracking module for tracking players and a credit system for providing automated casino transactions.

In one embodiment, the gaming device disclosed herein is associated with or otherwise integrated with one or more player tracking systems. Player tracking systems enable gaming establishments to recognize the value of customer loyalty through identifying frequent customers and rewarding them for their patronage. In one embodiment, the gaming device and/or player tracking system tracks any players gaming activity at the gaming device. In one such embodiment, the gaming device includes at least one card reader **38** in communication with the processor. In this embodiment, a player is issued a player identification card which has an encoded player identification number that uniquely identifies the player. When a player inserts their playing tracking card into the card reader to begin a gaming session, the card reader reads the player identification number off the player tracking card to identify the player. The gaming device and/or associated player tracking system timely tracks any suitable information or data relating to the identified player's gaming session. Directly or via the central controller, the gaming device processor communicates such information to the player tracking system. The gaming device and/or associated player tracking system also timely tracks when a player removes their player tracking card when concluding play for that gaming session. In another embodiment, rather than requiring a player to insert a player tracking card, the gaming device utilizes one or more portable devices carried by a player, such as a cell phone, a radio frequency identification tag or any other suitable wireless device to track when a player begins and ends a gaming session. In another embodiment, the gaming device utilizes any suitable biometric technology or ticket technology to track when a player begins and ends a gaming session.

During one or more gaming sessions, the gaming device and/or player tracking system tracks any suitable information or data, such as any amounts wagered, average wager amounts and/or the time these wagers are placed. In different embodiments, for one or more players, the player tracking system includes the player's account number, the player's card number, the player's first name, the player's surname, the player's preferred name, the player's player tracking ranking, any promotion status associated with the player's player tracking card, the player's address, the player's birthday, the player's anniversary, the player's recent gaming sessions, or any other suitable data. In one embodiment, such tracked information and/or any suitable feature associated with the player tracking system is displayed on a player tracking display **40**. In another embodiment, such tracked information and/or any suitable feature associated with the player tracking system is displayed via one or more service windows (not shown) which are displayed on the central display device and/or the upper display device.

In one embodiment, a plurality of the gaming devices are capable of being connected together through a data network. In one embodiment, the data network is a local area network (LAN), in which one or more of the gaming devices are substantially proximate to each other and an on-site central server or controller as in, for example, a gaming establishment or a portion of a gaming establishment. In another

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embodiment, the data network is a wide area network (WAN) in which one or more of the gaming devices are in communication with at least one off-site central server or controller. In this embodiment, the plurality of gaming devices may be located in a different part of the gaming establishment or within a different gaming establishment than the off-site central server or controller. Thus, the WAN may include an off-site central server or controller and an off-site gaming device located within gaming establishments in the same geographic area, such as a city or state. The WAN gaming system may be substantially identical to the LAN gaming system described above, although the number of gaming devices in each system may vary relative to each other.

In another embodiment, the data network is an internet or intranet. In this embodiment, the operation of the gaming device can be viewed at the gaming device with at least one internet browser. In this embodiment, operation of the gaming device and accumulation of credits may be accomplished with only a connection to the central server or controller (the internet/intranet server) through a conventional phone or other data transmission line, digital subscriber line (DSL), T-1 line, coaxial cable, fiber optic cable, or other suitable connection. In this embodiment, players may access an internet game page from any location where an internet connection and computer, or other internet facilitator is available. The expansion in the number of computers and number and speed of internet connections in recent years increases opportunities for players to play from an ever-increasing number of remote sites. It should be appreciated that enhanced bandwidth of digital wireless communications may render such technology suitable for some or all communications, particularly if such communications are encrypted. Higher data transmission speeds may be useful for enhancing the sophistication and response of the display and interaction with the player.

As mentioned above, in one embodiment, the present disclosure may be employed in a server based gaming system. In one such embodiment, as described above, one or more gaming devices are in communication with a central server or controller. The central server or controller may be any suitable server or computing device which includes at least one processor and a memory or storage device. In alternative embodiments, the central server is a progressive controller or another gaming machine in the gaming system. In one embodiment, the memory device of the central server stores different game programs and instructions, executable by a gaming device processor, to control the gaming device. Each executable game program represents a different game or type of game which may be played on one or more of the gaming devices in the gaming system. Such different games may include the same or substantially the same game play with different pay tables. In different embodiments, the executable game program is for a primary game, a secondary game or both. In another embodiment, the game program may be executable as a secondary game to be played simultaneous with the play of a primary game (which may be downloaded to or fixed on the gaming device) or vice versa.

In this embodiment, each gaming device at least includes one or more display devices and/or one or more input devices for interaction with a player. A local processor, such as the above-described gaming device processor or a processor of a local server, is operable with the display device(s) and/or the input device(s) of one or more of the gaming devices.

In operation, the central controller is operable to communicate one or more of the stored game programs to at least one local processor. In different embodiments, the stored game programs are communicated or delivered by embedding the

communicated game program in a device or a component (e.g., a microchip to be inserted in a gaming device), writing the game program on a disc or other media, downloading or streaming the game program over a dedicated data network, internet or a telephone line. After the stored game programs are communicated from the central server, the local processor executes the communicated program to facilitate play of the communicated program by a player through the display device(s) and/or input device(s) of the gaming device. That is, when a game program is communicated to a local processor, the local processor changes the game or type of game played at the gaming device.

In another embodiment, a plurality of gaming devices at one or more gaming sites may be networked to the central server in a progressive configuration, as known in the art, wherein a portion of each wager to initiate a base or primary game may be allocated to one or more progressive awards. In one embodiment, a progressive gaming system host site computer is coupled to a plurality of the central servers at a variety of mutually remote gaming sites for providing a multi-site linked progressive automated gaming system. In one embodiment, a progressive gaming system host site computer may serve gaming devices distributed throughout a number of properties at different geographical locations including, for example, different locations within a city or different cities within a state.

In one embodiment, the progressive gaming system host site computer is maintained for the overall operation and control of the progressive gaming system. In this embodiment, a progressive gaming system host site computer oversees the entire progressive gaming system and is the master for computing all progressive jackpots. All participating gaming sites report to, and receive information from, the progressive gaming system host site computer. Each central server computer is responsible for all data communication between the gaming device hardware and software and the progressive gaming system host site computer. In one embodiment, an individual gaming machine may trigger a progressive award win. In another embodiment, a central server (or the progressive gaming system host site computer) determines when a progressive award win is triggered. In another embodiment, an individual gaming machine and a central controller (or progressive gaming system host site computer) work in conjunction with each other to determine when a progressive win is triggered, for example through an individual gaming machine meeting a predetermined requirement established by the central controller.

In one embodiment, a progressive award win is triggered based on one or more game play events, such as a symbol-driven trigger. In other embodiments, the progressive award triggering event or qualifying condition may be by exceeding a certain amount of game play (such as number of games, number of credits, or amount of time), or reaching a specified number of points earned during game play. In another embodiment, a gaming device is randomly or apparently randomly selected to provide a player of that gaming device one or more progressive awards. In one such embodiment, the gaming device does not provide any apparent reasons to the player for winning a progressive award, wherein winning the progressive award is not triggered by an event in or based specifically on any of the plays of any primary game. That is, a player is provided a progressive award without any explanation or alternatively with simple explanations. In another embodiment, a player is provided a progressive award at least partially based on a game triggered or symbol triggered event, such as at least partially based on the play of a primary game.

In one embodiment, one or more of the progressive awards are each funded via a side bet or side wager. In this embodiment, a player must place or wager a side bet to be eligible to win the progressive award associated with the side bet. In one embodiment, the player must place the maximum bet and the side bet to be eligible to win one of the progressive awards. In another embodiment, if the player places or wagers the required side bet, the player may wager at any credit amount during the primary game (i.e., the player need not place the maximum bet and the side bet to be eligible to win one of the progressive awards). In one such embodiment, the greater the player's wager (in addition to the placed side bet), the greater the odds or probability that the player will win one of the progressive awards. It should be appreciated that one or more of the progressive awards may each be funded, at least in part, based on the wagers placed on the primary games of the gaming machines in the gaming system, via a gaming establishment or via any suitable manner.

In another embodiment, one or more of the progressive awards are partially funded via a side-bet or side-wager which the player may make (and which may be tracked via a side-bet meter). In one embodiment, one or more of the progressive awards are funded with only side-bets or side-wagers placed. In another embodiment, one or more of the progressive awards are funded based on player's wagers as described above as well as any side-bets or side-wagers placed.

In one alternative embodiment, a minimum wager level is required for a gaming device to qualify to be selected to obtain one of the progressive awards. In one embodiment, this minimum wager level is the maximum wager level for the primary game in the gaming machine. In another embodiment, no minimum wager level is required for a gaming machine to qualify to be selected to obtain one of the progressive awards.

In another embodiment, a plurality of players at a plurality of linked gaming devices in a gaming system participate in a group gaming environment. In one embodiment, a plurality of players at a plurality of linked gaming devices work in conjunction with one another, such as playing together as a team or group, to win one or more awards. In one such embodiment, any award won by the group is shared, either equally or based on any suitable criteria, amongst the different players of the group. In another embodiment, a plurality of players at a plurality of linked gaming devices compete against one another for one or more awards. In one such embodiment, a plurality of players at a plurality of linked gaming devices participate in a gaming tournament for one or more awards. In another embodiment, a plurality of players at a plurality of linked gaming devices play for one or more awards wherein an outcome generated by one gaming device affects the outcomes generated by one or more linked gaming devices.

Modification of Game Components

In one embodiment, upon a suitable triggering event, the gaming device determines a number or quantity of modifiers to provide to the player as indicated in block 102 of FIG. 3.

In one embodiment, the number of modifiers to provide is determined based on the triggering event. In one such embodiment, the number of modifiers to provide is determined based on a number of designated symbols generated in the play of the primary game, such as generated on the plurality of reels. For example, if the triggering event is the generation of at least three designated symbols scattered at any symbol position on the plurality of reels, the generation of three designated symbols results in providing the player three modifiers, the generation of four designated symbols results

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in providing the player four modifiers and the generation of five designated symbols results in providing the player five modifiers.

In different embodiments, the number of modifiers to provide is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria.

In one embodiment, each provided modifier is the same (i.e., associated with the same value). In another embodiment, each provided modifier is different (i.e., associated with a different value). In another embodiment, a plurality of the provided modifiers are each different. For example, the gaming device provides the player one 2× modifier, one 3× modifier and one 4× modifier. In different embodiments, the value associated with one, more or each of the provided modifiers is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria.

In another embodiment, the quantity of modifiers to provide to the player and/or the value associated with one or more of the provided modifiers is independent of any wager the player places. In these embodiments, the gaming device determines a quantity of modifiers to provide to the player and further determines a value associated with one or more of the provided modifiers regardless of the amount of the player's wager, the timing of the player's wager, the quantity of wagers placed and/or any side bet or side wager placed.

After displaying and providing one or more modifiers to the player, as indicated in block 104 of FIG. 3, the gaming device displays one or more of a plurality of different game components or characteristics of a game. The different displayed game components include, but are not limited to:

1. a quantity of free spins;
2. a quantity of free activations of one or more games;
3. an applicable multiplier for at least one, a plurality or each of the free spins;
4. a starting credit amount (based on a triggering event and/or a wager placed);
5. a quantity of picks in the game;
6. a quantity of selections in the game;
7. a quantity of wild symbols in the game;
8. a quantity of retrigger symbols in the game;
9. a quantity of terminators or termination symbols in the game;
10. a quantity of anti-terminators in the game;
11. a quantity of locking reels in the game;
12. a quantity of locking symbol positions in the game;
13. a quantity of expanding symbols in the game;
14. a quantity of rounds or levels in the game;

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15. a quantity of award opportunities in the game;
16. a quantity of progressive awards in the game;
17. a range of available awards in the game;
18. a maximum award in the game;
19. a minimum award in the game;
20. an average expected award in the game;
21. a quantity of active reels in the game;
22. a quantity of active paylines in the game;
23. a quantity of offers in the game;
24. a paytable will be utilized in the game;
25. a quantity of hands of playing cards in the game;
26. any game component disclosed herein; and
27. any other suitable game component.

It should be appreciated that any suitable game incorporating any suitable game component or characteristic may be implemented in accordance with the gaming device and method disclosed herein.

In one example embodiment, as seen in FIG. 4A, upon a suitable triggering event, the gaming device determines to provide two 2× modifiers to a player (indicated in the modifier meter 122) for a free spin game. In this example, the free spin game includes the separate, pre-modified game components or characteristics of two free spins 120a, five free spins 120b, a 2× multiplier 120c and a starting win amount of 10 credits. It should be appreciated that if none of the game components are modified, this free spin game would include seven free spins (i.e., game components 120a and 120b), with an applicable multiplier of 2× for each free spin (i.e., game component 120c) and a starting award meter of 10 credits (i.e., game component 120d). Appropriate messages such as "DISPLAYED ARE THE DIFFERENT GAME COMPONENTS FOR YOUR FREE SPIN GAME" and "YOUR FREE SPIN GAME WILL INCLUDE AT LEAST 7 FREE SPINS WITH AN APPLICABLE MULTIPLIER OF 2× FOR EACH FREE SPIN AND A STARTING BONUS WIN OF 10 CREDITS" are provided to the player visually or through suitable audio or audiovisual displays.

After initially displaying the different game components of the game, as indicated in block 106 of FIG. 3, the gaming device masks or conceals the displayed game components and displays the plurality of game components being shuffled into a different configuration. This masking and shuffling of the game components provides that the player does not know which game components are which when the player applies the provided modifiers as described below. Such a configuration provides that the player applies known modifiers to unknown game components which are utilized in determining any award to provide to the player. Such a configuration further provides that the player is knowledgeable regarding the potential awards. It should be appreciated that any suitable manner of hiding from the player which game components are which prior to enabling the player to apply the provided modifiers may be implemented in accordance with the gaming device disclosed herein.

As seen in the example embodiment of FIGS. 4B and 4C, after displaying to the player the plurality of game components for the free spin game, the gaming device masks or conceals the displayed game components and displays the plurality of game components being shuffled into a different configuration. For purposes of illustrating the game components being shuffled, game components 120a, 120b, 120c and 120d are also respectively marked a, b, c and d, respectively. It should be appreciated that the game components are masked and the additional markings of a, b, c and d are only to illustrate the shuffling process and are not displayed to the player. Appropriate messages such as "BEFORE YOU APPLY YOUR 2× MODIFIERS, LET'S MASK THE DIF-

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FERENT GAME COMPONENTS . . . ” and “ . . . AND SHUFFLE THE DIFFERENT GAME COMPONENTS” are provided to the player visually or through suitable audio or audiovisual displays.

As indicated in block 108 of FIG. 3, the gaming device enables the player to associate any provided modifiers with any of the shuffled and masked game components. In this embodiment, for each provided modifier, the gaming device enables the player to associate or apply that provided modifier to one of the shuffled game components, regardless of if any other provided modifiers were previously associated with or applied to that shuffled game component. Accordingly, the gaming device and method disclosed herein enables a player to determine whether to concentrate a plurality of modifiers on a single masked game component (and thus greatly increase the modification of that game component) or distribute the plurality of modifiers across a plurality of different masked game components.

For the example embodiment described above and as seen in FIG. 40, the gaming device enables the player to associate each of the two provided 2× modifiers with any of the shuffled and masked game components. Appropriate messages such as “PLEASE APPLY YOUR FIRST 2× MODIFIER TO ONE OF THE GAME COMPONENTS”, are provided to the player visually or through suitable audio or audiovisual displays.

As seen in FIG. 4D, the player selects highlighted masked game component 120b to apply the first 2× modifier 124a. After determining that the player has at least one unapplied modifier remaining, the gaming device enables the player to apply the next modifier to one of the masked game components (including the same game component previously associated with a modifier). Appropriate messages such as “PLEASE APPLY YOUR SECOND 2× MODIFIER TO ONE OF THE GAME COMPONENTS”, and “YOU MAY APPLY THIS 2× MODIFIER TO THE SAME GAME COMPONENT AS YOUR FIRST 2× MODIFIER OR TO A DIFFERENT GAME COMPONENT” are provided to the player visually or through suitable audio or audiovisual displays.

As seen in FIG. 4E, the player selects highlighted masked game component 120c to apply the second 2× modifier 124b. At this point, the gaming device determines that the player has zero unapplied modifiers remaining and proceeds as described below. Appropriate messages such as “LET’S SEE THE FINAL GAME COMPONENTS FOR YOUR FREE SPIN GAME” are provided to the player visually or through suitable audio or audiovisual displays.

As indicated in block 110 of FIG. 3, after the player indicates which modifiers to apply to or associate with which masked game components, the gaming device unmasks or reveals the game components and which modifier(s), if any, are associated with each game component. For each revealed game component which the player indicated to apply one or more modifiers to, the gaming device applies the associated modifier(s) for the play of the game as indicated in block 112. That is, the gaming device modifies the game components for one or more games to be played based on which game components the player applied the provided modifiers. After modifying the appropriate game components, the gaming device determines the parameters of the game to provide to the player. It should be appreciated that any applied modifier is configured to perform any suitable mathematical function on any revealed game component. That is, the modifiers disclosed herein may be added to one another to result in a modified game component. For example, three separate 2×

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modifiers individually applied to a game component may result in a total modifier of 6× applied to that game component.

In the example embodiment seen in FIG. 4F, after determining that no unapplied modifiers remain, the gaming device reveals that the player applied the first 2× modifier 124a to the game component of five free spins 120b. Accordingly, this game component is modified by the first 2× modifier to result in ten free spins. The gaming device also reveals that the player applied the second 2× modifier 124b to the game component of a 2× multiplier. Accordingly, this game component is modified by the second 2× modifier to result in a 4× multiplier. In this example, the gaming device determines that, when accounting for any modified game components (i.e., the modified game component of a 4× multiplier and the modified game component of ten free spins) and any unmodified game component (i.e., the unmodified game component of two free spins and the unmodified game component of a starting bonus win of 10 credits), the free spin game will include a total of twelve free spins with an applicable multiplier of 4× for each free spin and a starting bonus award of 10 credits. Appropriate messages such as “YOUR FREE SPIN GAME WILL INCLUDE 12 FREE SPINS WITH AN APPLICABLE MULTIPLIER OF 4× FOR EACH FREE SPIN AND A STARTING BONUS WIN OF 10 CREDITS” and “GOOD LUCK” are provided to the player visually or through suitable audio or audiovisual displays.

After determining the parameters of the game to provide to the player, the gaming device displays to the player one or more plays of such a game utilizing any modified game components and any unmodified game components as indicated in block 114 of FIG. 3. The gaming device provides the player any awards determined for the one or more plays of the game as indicated in block 116.

For example, as seen in FIG. 5, for the first free spin of the free spin game, the gaming device generates a plurality of symbols and the gaming device determines the award amount of \$1.00 associated with the generated symbol combination of bar symbol-bar symbol-bar symbol generated along payline 52. In this case, the gaming device modifies the determined award amount of \$1.00 by the applicable multiplier of 4× to result in an award amount of \$4.00 for the first free spin of the free spin game. As seen in award meter or indicator 128, this award amount is combined with the starting bonus win of ten credits or \$10.00. As seen in FIG. 5, appropriate messages such as “YOUR FIRST FREE SPIN RESULTED IN AN AWARD OF \$1.00” and “WHEN THE APPLICABLE MULTIPLIER OF 4× IS APPLIED, YOUR FIRST FREE SPIN RESULTED IN A MODIFIED AWARD OF \$4.00” may be provided to the player visually, or through suitable audio or audiovisual displays.

In this example, since at least one free spin remained in the free spin game (as seen in the number of free spins remaining meter or indicator 126), the gaming device provides the player an additional free spin. As illustrated in FIG. 6, the gaming device continues providing the player free spins in the free spin game until all twelve free spins are provided to the player. It should be appreciated that as seen in FIG. 6, for each free spin, the gaming device modified any determined award by the applicable multiplier of 4× such that the total number of free spins for the free spin game resulted in an award of 36 credits or \$36.00 provided to the player. After providing the player all twelve free spins of the free spin game and the determined award, the gaming device returns to a normal game play mode.

As described above, the gaming device and method disclosed herein enables a player to associate a plurality of

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modifiers with one masked game component to increase the modification of that game component. The example embodiment illustrated in FIG. 7A picks up with the player having applied a first 2× modifier to masked game component 120b and having two 2× modifiers remaining 122. In this example, after determining that the player has at least one unapplied modifier remaining, the gaming device enables the player to apply the second 2× modifier to one of the game components, including masked game component 120b. Appropriate messages such as “PLEASE APPLY YOUR SECOND 2× MODIFIER TO ONE OF THE GAME COMPONENTS”, and “YOU MAY APPLY THIS 2× MODIFIER TO THE SAME GAME COMPONENT AS YOUR FIRST 2× MODIFIER OR TO A DIFFERENT GAME COMPONENT” are provided to the player visually or through suitable audio or audiovisual displays.

In this example, as seen in 7B, the player selects highlighted game component 120b to apply the second 2× modifier, wherein this selected game component is the same masked game component as the game component the player previously applied the first 2× modifier. After determining that the player has at least one unapplied modifier remaining, the gaming device again enables the player to apply an unapplied modifier to one of the masked game components (including the same game component previously associated with a modifier). Appropriate messages such as “PLEASE APPLY YOUR THIRD 2× MODIFIER TO ONE OF THE GAME COMPONENTS”, and “YOU MAY APPLY THIS 2× MODIFIER TO THE SAME GAME COMPONENT AS YOUR FIRST AND SECOND 2× MODIFIERS OR TO A DIFFERENT GAME COMPONENT” are provided to the player visually or through suitable audio or audiovisual displays.

In this example, as seen in 7C, the player selects highlighted game component 120h to apply the third 2× modifier, wherein this selected game component is the game component the player previously applied the first and second 2× modifiers. At this point, after determining that the player has zero unapplied modifiers remaining, the gaming device proceeds in revealing to the player which game components the player selected to modify. Appropriate messages such as “LET’S SEE THE FINAL GAME COMPONENTS FOR YOUR FREE SPIN GAME” are provided to the player visually or through suitable audio or audiovisual displays.

In the example embodiment seen in FIG. 7D, after determining that no unapplied modifiers remain, the gaming device reveals that the player applied the first, second and third 2× modifiers to the game component of five free spins 120b. Accordingly, this game component is modified by these 2× modifiers to result in forty free spins. In this example, when accounting for any modified game components (i.e., the modified game component of forty free spins) and any unmodified game component (i.e., the unmodified game component of two free spins, the unmodified game component of a 2× multiplier, and the unmodified game component of a starting bonus win of 10 credits), the gaming device determines that the free spin game will include a total of forty-two free spins with an applicable multiplier of 2× for each free spin and a starting bonus award of 10 credits. Appropriate messages such as “YOUR FREE SPIN GAME WILL INCLUDE 42 FREE SPINS WITH AN APPLICABLE MULTIPLIER OF 2× FOR EACH FREE SPIN AND A STARTING BONUS WIN OF 10 CREDITS” and “GOOD LUCK” are provided to the player visually or through suitable audio or audiovisual displays. It should be appreciated that had the player applied the three 2× modifiers to the game component of a 2× multiplier, the gaming device would have

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provided the player a free spin game which includes seven free spins with an applicable multiplier of 16× for each free spin and a starting bonus award of ten credits. It should be further appreciated that had the player applied the three 2× modifiers to the game component of a starting bonus award of ten credits, the gaming device would have provided the player a free spin game which includes seven free spins with an applicable multiplier of 2× for each free spin and a starting bonus award of eighty credits.

As described above, after determining the parameters of the game to provide to the player, the gaming device displays to the player one or more plays of such a game utilizing any modified game components and any unmodified game components. In this example, any determined awards for the forty-two free spins are provided to the player and the gaming device returns to a normal game play mode.

In one alternative embodiment, the gaming device applies the modified game components for part, but not all of the game provided. For example, if the player applied three 2× modifiers to a game component of an applicable multiplier of 2× and further applied one 2× modifier to a game component of five free spins, the gaming device provides the player five free spins with an applicable multiplier of 16× (2× default multiplier×2× first modifier×2× second modifier×2× third modifier) and five free spins with an applicable multiplier of the default 2× multiplier. In different embodiments, which parts of the game the gaming device applies the modified game components is predetermined, randomly determined, determined based on the player’s status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player’s primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria.

In one alternative embodiment (not shown), the gaming device initially displays zero, one or more of the game components and initially masks one or more of the game components. In this embodiment, rather than initially displaying each of the game components of the game to be played (prior to masking and shuffling such game components), the gaming device masks one or more of the game components and only reveals these initially masked game components after the player has applied the provided modifiers. In one such embodiment, prior to enabling the player to apply any modifiers to any game components, the gaming device displays to the player a list or legend of which game components may be modified. In different embodiments, the number of game components initially masked and/or initially displayed to the player is predetermined, randomly determined, determined based on the player’s status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player’s primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria. In different embodiments, which game components are initially masked and which game components are initially displayed to the

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player is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria.

In another alternative embodiment, the gaming device initially displays one or more of the game components and initially masks zero, one or more of the game components. In this embodiment, rather than masking and shuffling each of the game components of the game to be played, the gaming device displays one or more game components prior to enabling the player to apply any provided modifiers. This embodiment increases the players excitement and enjoyment by enabling the player to apply one or more modifiers to at least one known game component or apply one or more modifiers to at least one unknown game component. In different embodiments, the number of game components which are revealed prior to enabling the player to apply any provided modifiers is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria. In different embodiments, which game components are initially masked and which game components are displayed prior to enabling the player to apply any provided modifiers is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria.

In another embodiment, the gaming device places a limit on the number of modifiers which may be applied to one or more game components. In this embodiment, if a player applied a quantity of modifiers to a game component which reaches the limit for that game component, the gaming device prohibits the player from applying any further modifiers to that game component. In different embodiments, which game components which the gaming device places a limit on the number of modifiers which may be applied is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted

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parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria. In different embodiments, the quantity or number of modifiers which may be applied to one or more game components is predetermined, randomly determined, determined based on the player's status (such as determined through a player tracking system), determined based on a generated symbol or symbol combination, determined based on a random determination by the central controller, determined based on a random determination at the gaming machine, determined based on a weighted parameter, determined based on one or more side wagers placed, determined based on the player's primary game wager, determined based on time (such as the time of day), determined based on an amount of coin-in accumulated in one or more pools or determined based on any other suitable method or criteria.

In another embodiment, the gaming device disclosed herein includes a game including, a first game component, a second, different game component, and a quantity of modifiers. In this embodiment, for each modifier, the gaming device enables a player to apply the modifier to the first game component, the second game component or a combination of the first game component and the second game component. If the player applied the modifiers to the first game component, the gaming device modifies the first game component by each applied modifier, and generates a first game outcome, wherein the generated game outcome is based on the modified first game component and the second game component. If the player applied the modifiers to the second game component, the gaming device modifies the second game component by each applied modifier, and generates a second game outcome, wherein the generated game outcome is based on the first game component and the modified second game component. If the player applied the modifiers to the first game component and the second game component, the gaming device modifies the first game component by each modifier applied to the first game component, modifies the second game component by each modifier applied to the second game component, and generates a third game outcome, wherein the generated game outcome is based on the modified first game component and the modified second game component. In this embodiment, the gaming device determines any award based on any generated game outcome and provides any determined award to the player.

It should be understood that various changes and modifications to the presently preferred embodiments described herein will be apparent to those skilled in the art. Such changes and modifications can be made without departing from the spirit and scope of the present invention and without diminishing its intended advantages. It is therefore intended that such changes and modifications be covered by the appended claims.

The invention is claimed as follows:

1. A gaming system comprising:

a housing;

a plurality of input devices supported by the housing, said plurality of input devices including:

(i) an acceptor, and

(ii) a cashout device;

at least one display device supported by the housing;

at least one processor; and

at least one memory device which stores a plurality of instructions which, when executed by the at least one

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processor, cause the at least one processor to operate with the plurality of input devices, and the at least one display device to:

- (a) if a physical item is received via the acceptor, establish a credit balance based, at least in part, on a monetary value associated with the received physical item;
- (b) for a play of a game:
 - (i) display a quantity of modifiers, said quantity of modifiers being at least two,
 - (ii) display a plurality of game components, wherein a plurality of said game components are different,
 - (iii) for each displayed modifier, receive an input to apply said modifier to one of said plurality of game components,
 - (iv) for each game component with at least one applied modifier, modify said game component based on each modifier applied to said game component,
 - (v) after modifying each game component with at least one applied modifier, display a quantity of award opportunities, said quantity of award opportunities being at least one, wherein said quantity of award opportunities are displayed distinct from the display of the quantity of modifiers and displayed distinct from the display of the plurality of game components, and
 - (vi) for each distinctly displayed award opportunity:
 - (A) determine an award, said determination based on at least one random determination and at least one of the modified game components, and
 - (B) display any determined award, wherein the credit balance is increasable based on any determined award; and
- (c) if a cashout input is received via the cashout device, cause an initiation of any payout associated with the credit balance.

2. The gaming system of claim 1, wherein prior to receiving any inputs to apply at least one of the provided modifier to at least one of said plurality of game components, at least one of the displayed plurality of game components is masked and at least one of the displayed plurality of game components is unmasked.

3. The gaming system of claim 2, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to unmask any modified masked game components.

4. The gaming system of claim 1, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to display the quantity of modifiers independent of any wagers placed.

5. The gaming system of claim 4, wherein any wagers placed include an amount of non-monetary credits.

6. The gaming system of claim 1, wherein any determined awards include an amount of non-monetary credits.

7. The gaming system of claim 1, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to apply a plurality of the modifiers to the same one of the game components.

8. The gaming system of claim 1, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to apply a plurality, but not all, of the modifiers to the same one of the game components.

9. The gaming system of claim 1, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to determine any awards for at least one displayed award opportunity based on at least at least one of the modified game components and at least one of any unmodified game components.

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10. The gaming system of claim 1, wherein said game components are selected from the group consisting of: a quantity of free spins, a multiplier for at least one free spin, a starting monetary credit amount, a starting non-monetary credit amount, a quantity of picks, a quantity of selections, a quantity of wild symbols, a quantity of retrigger symbols, a quantity of termination symbols, a quantity of anti-terminators, a quantity of locking reels, a quantity of locking symbol positions, a quantity of expanding symbols, a quantity of rounds, a quantity of award opportunities, a quantity of progressive awards, a range of awards, a maximum award, a minimum award, an average expected award, a quantity of active reels, a quantity of active paylines, a quantity of offers, a payable, and a quantity of hands of playing cards.

11. A gaming system server comprising:

at least one processor; and

at least one memory device which stores a plurality of instructions which, when executed by the at least one processor for a play of a game, cause the at least one processor to:

- (a) cause at least one display device to display a quantity of modifiers, said quantity of modifiers being at least two,
- (b) cause the at least one display device to display a plurality of game components, wherein a plurality of said game components are different,
- (c) for each displayed modifier, receive data associated with an input to apply said modifier to one of said plurality of game components,
- (d) for each game component with at least one applied modifier, modify said game component based on each modifier applied to said game component,
- (e) after modifying each game component with at least one applied modifier, cause the at least one display device to display a quantity of award opportunities, said quantity of award opportunities being at least one, wherein said quantity of award opportunities are displayed distinct from the display of the quantity of modifiers and displayed distinct from the display of the plurality of game components, and
- (f) for each distinctly displayed award opportunity:
 - (i) determine an award, said determination based on at least one random determination and at least one of the modified game components, and
 - (ii) cause the at least one display device to display any determined award, wherein a credit balance is increasable based on any determined award, said credit balance being increasable via an acceptor of a physical item associated with a monetary value, and said credit balance being decreasable via a cashout device.

12. The gaming system server of claim 11, wherein prior to receiving any data associated with inputs to apply at least one of the provided modifier to at least one of said plurality of game components, at least one of the displayed plurality of game components is masked and at least one of the displayed plurality of game components is unmasked.

13. The gaming system server of claim 12, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to cause the at least one display device to unmask any modified masked game components.

14. The gaming system server of claim 11, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to cause the at least one display device to display the quantity of modifiers independent of any wagers placed.

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15. The gaming system server of claim 14, wherein any wagers placed include an amount of non-monetary credits.

16. The gaming system server of claim 11, wherein any determined awards include an amount of non-monetary credits.

17. The gaming system server of claim 11, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to apply a plurality of the modifiers to the same one of the game components.

18. The gaming system server of claim 11, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to apply a plurality, but not all, of the modifiers to the same one of the game components.

19. The gaming system server of claim 11, wherein when executed by the at least one processor, said plurality of instructions cause the at least one processor to determine any awards for at least one displayed award opportunity based on at least at least one of the modified game components and at least one of any unmodified game components.

20. The gaming system server of claim 11, wherein said game components are selected from the group consisting of: a quantity of free spins, a multiplier for at least one free spin, a starting monetary credit amount, a starting non-monetary credit amount, a quantity of picks, a quantity of selections, a quantity of wild symbols, a quantity of retrigger symbols, a quantity of termination symbols, a quantity of anti-terminators, a quantity of locking reels, a quantity of locking symbol positions, a quantity of expanding symbols, a quantity of rounds, a quantity of award opportunities, a quantity of progressive awards, a range of awards, a maximum award, a minimum award, an average expected award, a quantity of active reels, a quantity of active paylines, a quantity of offers, a payable, and a quantity of hands of playing cards.

21. A method of operating a gaming system, said method comprising:

- (a) causing at least one display device to display a quantity of modifiers, said quantity of modifiers being at least two;
- (b) causing the at least one display device to display a plurality of game components, wherein a plurality of said game components are different;
- (c) for each displayed modifier, receiving an input to apply said modifier to one of said plurality of game components;
- (d) for each game component with at least one applied modifier, causing at least one processor to execute a plurality of instructions to modify said game component based on each modifier applied to said game component;
- (e) after modifying each game component with at least one applied modifier, causing the at least one display device to display a quantity of award opportunities, said quantity of award opportunities being at least one, wherein said quantity of award opportunities are displayed distinct from the display of the quantity of modifiers and displayed distinct from the display of the plurality of game components; and

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(f) for each distinctly displayed award opportunity:

- (i) causing the at least one processor to execute the plurality of instructions to determine an award, said determination based on at least one random determination and at least one of the modified game components, and
- (ii) causing the at least one display device to display any determined award, wherein a credit balance is increasable based on any determined award, said credit balance being increasable via an acceptor of a physical item associated with a monetary value, and said credit balance being decreasable via a cashout device.

22. The method of claim 21, wherein prior to receiving any inputs to apply at least one of the provided modifier to at least one of said plurality of game components, at least one of the displayed plurality of game components is masked and at least one of the displayed plurality of game components is unmasked.

23. The method of claim 22, which includes causing the at least one display device to unmask any modified masked game components.

24. The method of claim 21, which includes causing the at least one display device to display the quantity of modifiers independent of any wagers placed.

25. The method of claim 24, wherein any wagers placed include an amount of non-monetary credits.

26. The method of claim 21, wherein any determined awards include an amount of non-monetary credits.

27. The method of claim 21, which includes applying a plurality of the modifiers to the same one of the game components.

28. The method of claim 21, which includes applying a plurality, but not all, of the modifiers to the same one of the game components.

29. The method of claim 21, which includes causing the at least one processor to execute the plurality of instructions to determine any awards for at least one displayed award opportunity based on at least at least one of the modified game components and at least one of any unmodified game components.

30. The method of claim 21, wherein said game components are selected from the group consisting of: a quantity of free spins, a multiplier for at least one free spin, a starting monetary credit amount, a starting non-monetary credit amount, a quantity of picks, a quantity of selections, a quantity of wild symbols, a quantity of retrigger symbols, a quantity of termination symbols, a quantity of anti-terminators, a quantity of locking reels, a quantity of locking symbol positions, a quantity of expanding symbols, a quantity of rounds, a quantity of award opportunities, a quantity of progressive awards, a range of awards, a maximum award, a minimum award, an average expected award, a quantity of active reels, a quantity of active paylines, a quantity of offers, a payable, and a quantity of hands of playing cards.

31. The method of claim 21, which is provided through a data network.

32. The method of claim 31, wherein the data network is an internet.

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